JVC

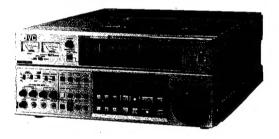
SERVICE MANUAL

VIDEO CASSETTE RECORDER

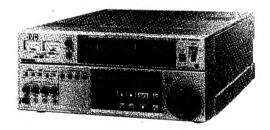
[SUPPLEMENT]

BR-S822U/BR-S622U/BR-S522U/ **BR-S525U**

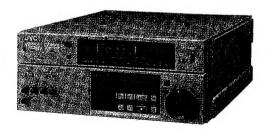
BR-S822U --



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BR-S525U -











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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following orecautions when a set is being serviced.

Precautions during Servicing

- Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- Parts identified by the symbol and shaded (parts are critical for safety.

Replace only with specified part numbers.

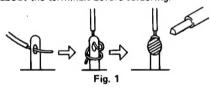
Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.

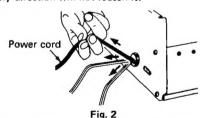
Caution for continued protection against fire hazard.
Replace only with same type and rated fuse(s) as specified.

- 4. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
- 3) Spacers
- 5) Barrier

- 2) PVC tubing
- 4) Insulation sheets for transistors
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.



- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- Check that replaced wires do not contact sharp edged or pointed parts.
- When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.



- 10. Also check areas surrounding repaired locations.
- 11. Products using cathode ray tubes (CRTs)
 In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector

In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

- 1) Connector part number: E03830-001
- Required tool: Connector crimping tool of the proper type which will not damage insulated parts.
- 3) Replacement procedure
 - (1) Remove the old connector by cutting the wires at a point close to the connector.

Important: Do not reuse a connector (discard it).



Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.



(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

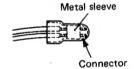


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.



Fig. 6

(5) Check the four points noted in Fig. 7.

Not easily pulled free Crimped at approx. center of metal sleeve

Wire insulation recessed more than 4 mm

Fig. 7

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

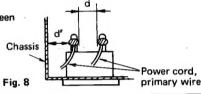
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.



4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

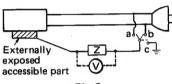


Fig. 9

5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

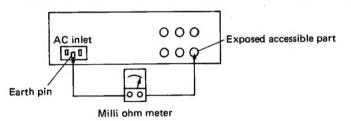


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V		5 4 440 /F00 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V	Japan	R≧1 MΩ/500 V DC	AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	_	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R≧10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	$d \ge 4 \text{ mm}$ $d' \ge 8 \text{ mm (Power cord)}$ $d' \ge 6 \text{ mm (Primary wire)}$

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	0	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF ο ο 1.5 κΩ	i ≦ 0.5 mA rms	Exposed accessible part
110 to 130 V	o 130 V	0—∕VV—0 2 kΩ	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Antenna earth terminal
220 to 240 V	Europe & Australia	ο— √ √√—ο	$i \le 0.7 \text{ mA peak}$ $i \le 2 \text{ mA dc}$	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1 GENERAL DESCRIPTION

1.1 DETAIL OF ALTERATIONS

Recent products of the BR-S822U/BR-S522U/BR-S522U/BR-S525U have undergone alteration in the mechanism assembly and the FM AUDIO circuit for improvement of the workability and reliability.

The following table shows changes in the main parts with the serial numbers that are subject to the alterations of this time. For changes in exploded views and parts list, refer to the SECTION 5.

Note: This service manual mentions the parts that are changed this time and the replacing procedure of them, etc. Therfore, use this service manual together with the service manuals issued for the respective models.

Service manual No.9246C : BR-S822U, BR-S622U, BR-S522U

Service manual No.9272 : BR-S525U

		BR-S822U BR-S622U	BR-S522U	BR-S525U				
	Main deck	Main deck used in BR-S800 / BR-S500 serves in common.						
Change	Pinch roller solenoid	Peripheral parts of pinch roller, loading motor, etc. are changed. (to improve maintenance efficiency).						
nge in	A/C head	Peripheral parts are changed to reduce off azimuth of A/C head after adjust						
mechanism	Full erase head	ase is added with change of ma	in deck.					
	Tension release solenoid	Removed						
assembly	M-CTL/REEL SERVO	Change of software with removal of tension release solenoid.**1						
ÿ.	board assembly	IC1: Change to I	IC1: Change to PGD30241C-11-13					
	DECK TERMINAL board assembly	Some parts are removed with removal of tension release solenoid. (CN103, CN104, D101, D102)						
	MOTHER-1 board assembly	PRK10113F-01	PRK10113B-01	PRK10149D				
Change	MOTHER-2 board assembly	PRK10111F-01	PRK10111B-02	PRK10111D-02				
AUDIO-3 PRK10115A PRK10115C				10115C				
o circuit	FM AUDIO PRE/REC AMP board assembly	Removed						
	AVM/ONSC board assembly	PRK20089E						

※1: The new software is programmed to avoid tape creep by reducing tape tension when the MENU No. 308/309 (LONG PAUSE) is set to "T.RELEASE".

Table 1-1 Changes in main parts

	BR-S822U	BR-S622U	BR-S522U	BR-S525U	
MECHANISM assembly	#3601-	#3401-	#0601-	# 1031-	
AUDIO circuit	#3291-	#3151-	#0401-	#0931-	

Table 1-2 Serial numbers subject to changes by model

SECTION 2 MECHANISM ADJUSTMENT

2.1 CHANGES IN MECHANISM ASSEMBLY

In regard of the mechanism assembly, the mechanism used in the BR-S800U/BR-S500U is partially used in the 22 series, too, in order to improve workability in replacing parts such as the loading motor, pinch roller, etc.

The following table shows the main parts of the mechanism assembly with their standard replacement time.

The parts that are changed this time are shaded in the table.

Besides them, the tension release solenoid and parts related to it are removed in the 22 series. For detail of the exploded view and part numbers, etc., refer to the exploded view in the SECTION 5 and parts list.

	Na	Part Name	Part Number	Stan	dard se	rvice pe	riod	Description	
	No.	rart Name	Tart Number	1000	2000	3000	4000	D cool iption	
	①	Supply guide shaft	. —	*	*	*	*	_	
	2	Tension arm ass'y	PRD44024B-02					Refer to the service manual issued before this.	
	3	Supply guide roller	PRD43721A						
	(4)	Full erase head	PGZ01841				Addition of head base.		
	(5)	Supply pole base ass'y	PRD30821E						
Tape	6	Supply inertia roller	PGZ01667				_	Refer to the service manual issued before this.	
	7	Take-up inertia roller	PGZ01667-02	*	*	*	•	· .	
transport	(8)	Take-up pole base ass'y	PRD30864B					Removing procedure changes with change of A / C head.	
	9	A/C head	PGZ01840					Change of head arm shape.	
system	10	Take-up guide pole	PRD44151A-01						
Ϊ	1	Guide arm roller ass'y	PRD43404D-04					Refer to the service manual issued before t	
	12	Capstan shaft		*	*	*	*		
	(3)	Pinch roller arm ass'y	PRD43387A-01	0	•	0	•	Removing and reinstalling procedures change.	
	14)	Drum ass'y	PDV2272D	*	*	0	•	Defends the consist warmed issued before this	
	15	Upper drum ass'y	PRD20380D	•	•	•	(•)	Refer to the service manual issued before this. Note:	
	16	Capstan motor	PGZ01535-01-01				•	Carefully remove the drum assembly since there is wiring to the lower drum at the back of the main deck.	
	17	Reel motor	PGZ01541A-04				•	willing to the forter than of the 200x of the mean deem	
	(8)	Loading motor	PRD44123A				•	With change of assembling way, shape of motor	
Drive s	(19)	Loading belt	PRD30022-17 PRD30022-18	•	•	•	•	bracket assembly, part numbers of solenoid assembly and other parts are changed.	
system	20	Cassette motor	PQ45489A				•		
em	2	Supply main brake	PRD43388A-02		•		•		
	2	Take-up main brake	PRD43395A-02		•		•	Refer to the service manual issued before this.	
	23	Take-up sub brake	PRD43479A-01		•		•	Neigi to the service manual issued before this.	
	23	Brush ass'y (A)/(B)	PRD43986A/B		•		(•)		
Others	25	Slip ring ass'y	PGZ01872	0	•	0	(•)		
S	26	Head cleaner	PRD40510-01-02	•	•	•	•	_	

*	=Cleaning.	0	=Check and	Replace if	necessary,	or	Check	and	Clean
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⁼Replacement. ()=Included in Drum assy.

Note: This service manual mentions the parts that are changed this time and the replacing procedure of them, etc.

Therfore, use this service manual together with the service manuals issued for the respective models.

No.	Item	Adjustment and Check
1	A/C head (Change) Removal —	 Tools to prepare: Ordinary screwdriver (-) Nut driver: 5.5mm Disconnect the connectors from the A/C HEAD board. Remove the taper nut ① for X-value adjustment. Remove the nut ② and then remove the A/C head together with the head base with care not to lose the spring ③. Remove two screws ④ and a screw ⑤ to remove the A/C head. At that time pay careful attention to the spring ⑥ not to lose it. Unsolder the A/C HEAD board and replace the A/C head with new one.
	Fig. 2-1 — Reinstallation — 5.0 ±0.3mm approx 1 1 mm MAIN DECK Fig. 2-2	 Before assembling the A/C head to the main deck, conduct rough adjustment of the head height as shown in Fig. 2-2. Assemble the A/C head and its peripheral parts to the main deck in the reverse order of the disassembly. When fitting the taper nut, temporarily adjust the height as shown in Fig. 2-3.
	The Check and adjustment 2.6.4 A/C head adjustment 2.7.1 Tape transport check 2.6.2 FM waveform check 2.6.5 X-value adjustment 3.1.2 or 3.2.5 N.audio PB level	Note: Before confirming normal tape transport, do not use any alignment tape to provent it from damage. Make sure to check tape transport with an ordinary recording tape beforehand. 3.1.3 or 3.2.6 N.audio frequency response 3.1.5 N.audio REC level* 3.1.6 N.audio REC frequency response* 3.1.9 N.audio cross talk cancel* FINISH * BR-S522U / BR-S525U need not these adjustments.

Note: This service manual mentions the parts that are changed this time and the replacing procedure of them, etc.

Therfore, use this service manual together with the service manuals issued for the respective models.

No.	ltem	Adjustment and Check
2	Pinch roller arm assembly (Change) Fig. 2-4	Note: Proceed to do the following work in the Assembly mode (see 2.4.1) (1) Remove the noise shutter. (BR-S525U only) Note: When installing the noise shutter to the pinch roller assembly make sure to set the pinch roller assembly to downmost position or remove it. (2) Remove two scres ① and lift the pinch roller arm assembly upward to remove it. (3) When reinstalling, do it so as to position the cam of the pinch roller assembly on the rail of the solenoid bracket in the assembly mode. (4) Aseemble the noise shutter to the pinch roller arm assembly. (BR-S525U only)
3	Mode motor (Change) Belt (2pcs.) Fig. 2-5	 Disengage the belt from the motor pulley. Remove two screws ① and one screw ②, then detach the mode motor together with the motor bracket. Remove two screws fixing the mode motor to the motor bracket to detach the motor from the bracket. Unsolder wires and remove the motor from the board.
4	Pinch roller solenoid position (Addition) Motor Screw bracket Solenoid Push in 1 graduation 1 graduation (rough) Solenoid lever Confirm that the scale indicates 1±0.5 graduation for the stroke of the solenoid lever after the pinch roller contacts the capstan shaft.	 Turn the mode motor in the direction of loading (towar the rear side) to set the mechanism in the loading end state Turn the mode motor further in the same directio (rewarward) to move the pinch roller arm to the downmos position. Press down the solenoid lever moreover while checking that the reading of the stroke from the step (2) to the moreover pressed point is 1±0.5 graduation on the scale located of the solenoid lever. When reading is out of 1±0.5 graduation, loosen the two screws and adjust the solenoid position.

Note: This service manual mentions the parts that are changed this time and the replacing procedure of them, etc.

Therfore, use this service manual together with the service manuals issued for the respective models.

 (1) Remove one screw ①. (2) Disconnect wires from the full erase head and then lift the full erase head for removing.
 (3) Fix the full erase head and the full erase head base to the main deck with the screw ① as shown in the figure. (4) Check that the full erase head and the base are firmly fixed to the main deck. (5) If the full erase head is in unstable setting, slide the full erase head in the direction of the arrow (away from the drum assembly) and fix it again.
 (1) Remove the mechanism ass'y (see 2.3.8). (2) Remove two stoppers ③ and lift the pole base assembly for removing with care of the collar between the pole base ar stopper not to lose it. (3) Supply pole base Turn the loading motor counterclockwise to set the mechanism to the loading end position. (2) After removing the stopper, lift the pole base ass'y upwar while removing it. (4) Take-up pole base Remove the A/C head ass'y. Remove two screws ① and three screws ②, then take the T.U. loading ass'y away. When removing the screws ②, it careful not to lose spacer. (5) Remove two stoppers ③ and lift the pole base ass'y upwar to remove it. (6) For installing the T.U. loading assy pay careful attention the item No.2 of "2.4 Assembling of Mechanism". (6) After replacing the TU pole base, check the following item ① A/C head adjustment (see 2.6.4). ② Tape transport check (see 2.7.1). ③ FM waveform check (see 2.6.2).

SECTION 3 ELECTRICAL ADJUSTMENT

With the change that the FM AUDIO PRE/REC AMP board is incorporated in the AUDIO-3 board, adjustment procedure of the audio circuit is changed to as mentioned below.

Therefore, for adjusting the audio circuit with the new AUDIO-3 board (PRK10115) refer to the procedure mentioned below, while for adjusting the circuit with the old board (PRK10062) refer to the service manual issued previously.

3.1 AUDIO CIRCUIT (BR-S822U/BR-S622U)

Note • All adjustment values are balanced values with 600Ω resistance.

- Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.
- When using an oscilloscope for observing waveforms, etc., use the 10:1 probe.

No.	ltem	Check point	Adjustment	Signal	Mode	Check and Adjustment
	AUDIO REC LEVEL VR setting & AUDIO LEVEL METER adjustment	HiFi AUDIO OUT (600Ω terminator)		1kHz∕ -6dBs	E-E	 Set the AUDIO MONITOR switch to the "Hi-Fi" position. Adjust output level at the HiFi AUDIO output terminal to be —6.0dBs with the HiFi REC LEVEL VR. Note For the following adjustment, leave the Hi-Fi AUDIO REC LEVEL VR as it is set in the step 2). Reading the AUDIO LEVEL METER head-on, adjust R87(L-ch) and R88(R-ch) so that the meter reads 0.0dB respectively.
		N. AUDIO OUT (600Ω terminator)		1kHz∕ -6dBs	E-E	 Set the AUDIO MONITOR switch to the "NORM" position. Adjust output level at the N.AUDIO output terminal to be -6.0dBs with the N.AUDIO REC LEVEL VR. Note For the following adjustment, leave the N.AUDIO REC LEVEL VR as it is set in the step 2). Read the AUDIO LEVEL METER head-on while confirming that the pointer indicates 0.0±0.5dB. Note: Confirm that level difference between R and L channels is within 0.5dB.
2	Normal Audio playback level	N. AUDIO OUT (600Ω terminator)	R25: 7E (Lch) R26: 5E (Rch) (AUDIO-1)	MBA	РВ	 Make sure of the MEMORY switch No.201 (DOLBY NR) being set to "OFF". Adjust R25(L-ch) and R26(R-ch) so that each output level is -6.0dBs. Note: Adjust the TRACKING VR to the best tracking position. Note Confirm that the meter pointer does not overshake in the Search FWD / REV mode.
3	Normal Audio playback frequency response	N. AUDIO OUT (600 Ω terminator) - Rated frequ 400 Hz 0 dB (Reference)	(Lch) R126 : 5C (Rch) (AUDIO-1) pency response - 100Hz	10kHz		 Make sure of the MEMORY switch No.201 (DOLBY NR) being set to "OFF". With the alignment tape MH-6, confirm that playback level of the 100Hz signal is —0.5dB as against playback level of the 400Hz signal. With the same tape used, adjust R125(L-ch) and R126(R-ch) so that playback level of the 10kHz signal is +1.8dB compared with that of the 400H signal. Note: Adjust the TRACKING VR to the best tracking

Note •All adjustment values are balanced values with 600 Ω resistance. •Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

No.	ltem	Check point	Adjustment	Signal	Mode	Check and Adjustment
4	Audio bias frequency & level	TP5:9C (AUDIO-1) Frequency counter TP5:9C (Lch) TP6:4A (Rch) (AUDIO-1) Oscilloscope	L405 : 11D (AUDIO-1) TP5 : 70±	No input signal	REC S-VHS	1) Adjust frequency at TP5 to be 70kHz.
			T401 : 10G (Lch) T402 : 11E (Rch) (AUDIO-1)	No input signal	REC S-VHS	2) Turn R425 and R426 on the AUDIO1 board full clockwise. In this condition, adjust T401(L-ch) and T402(R-ch) to maximize bias oscillation respectively. (more than 80Vp-p)
			R425 : 10G (Lch) R426 : 10E (Rch) (AUDIO-1)	No input signal	REC S-VHS	3) Adjust R425 (L-ch) and R426 (R-ch) to obtain 65Vp-p as respective bias levels. Note: The above bias levels may be readjusted later in the Item No.6.
			R455 : 11F (Lch) R456 : 12F (Rch) (AUDIO-1)	No input signal	REC VHS:	4) Perform recording without signal input in the VHS mode. 5) Adjust R455(L-ch) and R456(R-ch) to obtain 52Vp-p as respective bias levels. Note: The above bias levels may be readjusted later in the Item No.6.
5	Normal Audio REC / PB	N. AUDIO OUT (600Ω terminator)	(Lch) R8:6F (Rch) (AUDIO-1)	1kHz∕ -6dBs ↓ N. AUDIO IN	REC VHS ▼ PB	 Record the 1kHz/-6dBs signal and play it back. Confirm that the playback level is -6.0± 0.5dBs on R and L channels respectively (level difference between channels must be within 0.5dB.). When playback level is out of the the specifications, roughly adjust R7(L-ch) orR8(R-ch), and repeat the above steps 1) and 2) until the adjustment brings satisfactory result.
			Playback	1kHz∕ −6dBs N. AUDIO IN	REC S-VHS PB	4) Record the 1kHz/-6dBs signal and play it back. 5) Confirm that the playback level is -5.5±1.0dBs.

Note •All adjustment values are balanced values with 600 Ω resistance. •Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

Vo.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
-	Normal audio PB	N. AUDIO OUT	_	1kHz, 10kHz/	REC S-VHS	Make sure of MEMORY switch No.201(DOLBY NR) being set to "OFF".
	frequency response (REC/PB)	terminator)		-26dBs	₽B	2) Record the 1kHz and 10kHz signals, and play ther back.
	(4,22, 12,			N. AUDIO		3) Confirm that playback level of the 10kHz signal -0.5±0.5dB as against that of the 1kHz signal.
		- Rated frequency response - (S-VHS NR: "OFF")				4) If not, fine adjust the bias levels explained in the previous item, No .4.
						(a)If the level of the 10kHz signal is higher than the specifications, raise the bias level according to the start of the start of the start of the level according to the start of the star
		0dB (Refere		10kHz e) -0.5±0.5dB		step 3) of the Item No.4. (b)If the level of the 10kHz signal is lower than the specifications, decline the bias level according to the same step.
						5) After the bias adjustment, repeat the steps 2) ar 4) to meet the specifications.
	- Rated frequency respo			1kHz, 12kHz∕ −26dBs ₩	PB	6) Set the NR switch to "ON", and record the 1kHz and 12kHz signals and play them back.
	(\$-	+VHS NR: "ON") 1kHz 12kHz				7) Confirm that playback level of the 12kHz s 0.0±2.5dB as against that of the 1kHz sign (level difference between R and L channels be within 3.0dB).
	OdB ((Reference) —	0.0±2.5dB	IN		8) Return the NR switch to "OFF" position.
		N. AUDIO OUT -	1kHz,	REC VHS	9) Record the 1kHz and 10kHz signals, and play the	
		(600Ω terminator)			10kHz∕ -26dBs	back. 10)Confirm that playback level of the 10kHz signal -0.5 ± 0.5 dB as against that of the 1kHz signal.
			N. AUDIO	1.5	11) If not, fine adjust the bias levels explained in the previous item, No.4.	
		- Rated frequency response -		"		(a) If the level of the 10kHz signal is higher than the specifications, raise the bias level according to t step 5) of the Item No.4.
		(VHS NR: "OFF")	: "OFF")	Hz		(b)If the level of the 10kHz signal is lower than the specifications, decline the bias level according to the same step.
		0dB (Refero	0dB (Reference) -0.5±0.5dB			12) After the bias adjustment, repeat the steps 9) a 10) to meet the specifications.
				41.11	DEO	40) Cat the NID quite to "ON" and around the distri-
	- Rated frequency response - (VHS NR: "ON") 1kHz 12kHz			1kHz, 12kHz∕ −26dBs ₩	REC VHS	13) Set the NR switch to "ON", and record the 1kH and 12kHz signals and play them back.
					PB	14) Confirm that playback level of the 12kHz signal 0.0±2.5dB as against that of the 1kHz signal (level difference between R and L channels must be within 3.0dB).
			.0±2.5dB	IN		15) Return the NR switch to "OFF" position.

Note •All adjustment values are balanced values with 600 Ω resistance. •Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
7	Full erase frequency	TP403 : 9A (AUDIO-1) Frequency counter	T405 : 9A (AUDIO-1)	No input signal 03 : 70±6ki	REC VHS	Adjust T405 so that frequency at TP403 becomes 70kHz.
8	BR-S822U Audio in- sert erase voltage	TP401 : 9B (AUDIO-1) Oscilloscope	T403 : 11C (AUDIO-1)	No input signal	AUD-1 INSERT VHS	1) Perform the AUD-1 insert editing. 2) Adjust T403 to maximize erase level at TP401 (more than 200mVp-p). Note: After this adjustment, repeat the AUD-1 insert editing while confirming the erase level being the same as adjusted in the step 2).
		TP402 : 9B (AUDIO-1) Oscilloscope	T404 : 11B (AUDIO-1)	No input signal	AUD-2 INSERT VHS	3) Perform the AUD-2 insert editing. 4) Adjust T404 to maximize erase level at TP402 (more than 200mVp-p.) Note: After this adjustment, repeat the AUD-2 insert editing while confirming the erase level being the same as adjusted in the step 4).
	BR-S622U Audio post- recording erase voltage	TP402 : 9B (AUDłO-1) Oscilloscope	T404 :11B (AUDIO-1)	(AUDIO-1) signal		1) Perform audio dubbing (postrecording). 2) Adjust T404 to maximize erase level at TP402 (more than 200mVp-p). Note: After this adjustment, repeat the audio dubbing operation while confirming the erase level being the same as adjusted in the step 2).
		TP401 : 9B (AUDIO-1)	T403 : 11C (AUDIO-1)	No input signal	REC VHS	3) Adjust T403 to maximize erase level at TP401. Note: After this adjustment, set the deck to the REC mode again while confirming the erase level being the same as adjusted in the step 3).

Note •All adjustment values are balanced values with 600Ω resistance.
•Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

No.	ltem ~	Check point	Adjustment	Signal	Mode	Check and Adjustment
9	BR-S822U Normal audio insert crosstalk cancel	N. AUDIO OUT (600Ω terminator) Rch output leve	(AUDIO-1)	1kHz∕ -6dBs ▼ N. AUDIO	AUD-1 INSERT VHS	1) Perform AUD-1 insert editing with a tape on which no audio signal is recorded. 2) Adjust R302 to minimize output level on R-ch. Note: For this adjustment, use a tape on which normal audio signal is not recorded.
		R301 : 5D (AUDIO-1) Lch output level : Minimum		1kHz∕ −6dBs ₩ N. AUDIO	AUD-2 INSERT VHS	3) Perform AUD-2 insert editing with a tape on which no audio signal is recorded. 4) Adjust R301 to minimize output level on L-ch. Note: For this adjustment, use a blank tape on which any signal is not recorded.
		Rch output leve	R320 : 5D L302 : 5C (AUDIO-1)	10kHz∕ −6dBs ↓ INSERT VHS		 5) Perform AUD-1 insert editing with a tape on which no audio signal is recorded. 6) Adjust R320 and L302 to minimize output level on R-ch. Note: Repeat the above steps 5), 6) and 7), 8) until respective output levels are minimized.
		Lch output lev	R319 : 6D L301 : 6C (AUDIO-1)	10kHz∕ −6dBs ₩ N. AUDIO	AUD-2 INSERT VHS	 7) Perform AUD-2 insert editing with a tape on which no audio signal is recorded. 8) Adjust R319 and L301 to minimize output level on L-ch. Note: Repeat the above steps 5), 6) and 7), 8) until respective output levels are minimized.
	BR-S622U Normal audio post- recording crosstalk	N. AUDIO OUT (600Ω terminator) Lch output lev	(AUDIO-1)	1kHz∕ −6dBs ▼ N. AUDIO	AUDIO DUB VHS	Perform audio dubbing (postrecording) with a tape on which no audio signal is recorded. Adjust R301 to minimize output level on L-ch.
	cancel	Lch output lev	R319 : 6D L301 : 6C (AUDIO-1)	10kHz∕ −6dBs ₩ N. AUDIO	AUDIO DUB VHS	 3) With the 10kHz/—6dBs signal input, perform audio dubbing (postrecording). 4) Adjust R319 and L301 to minimize output level on L-ch.
10	BR-S822U Normal audio insert bias trap	TP7:8E (AUDIO-1) V	L9:7F (AUDIO-1)	No input signal	AUD-2 INSERT VHS	 Perform AUD-2 (R-ch) insert editing. Adjust L9 to minimize bias level (70kHz) at TP7.
		TP8: 6E (AUDIO-1)	L10 : 4F (AUDIO-1)	No input signal	AUD-1 INSERT VHS	Perform AUD-1 (L-ch) insert editing. Adjust L10 to minimize bias level (70kHz) at TP8.
	BR-S622U Normal audio post- recording bias trap	TP7:8E (AUDIO-1) Oscilloscope	L9:7F (AUDIO-1)	No input signal	AUDIO DUB VHS	Perform audio dubbing. Adjust L9 to minimize bias (70kHz) at TP7.

Note •All adjustment values are balanced values with 600 Ω resistance. •Turn off the MEMORY switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment
11	BR-S822U Time code bias trap	TP601 : 2B (AUDIO-1)	L601 : 3A (AUDIO-1)	No input signal	AUD-1 INSERT VHS	Make sure of MEMORY switch No.206(AUD-2/LTC) being set to "LTC". Perform AUD-1 insert editing.
		Oscilloscope	TP601:	Minimum		3) Adjust L601 to minimize level at TP601.4) After the adjustment, return the MEMORY switch to "AUD-2" position.
12	Hi-Fi audio carrier frequency	TP7 (AUDIO-3) Frequency counter	R29 (AUDIO-3)	No input signal	REC VHS	1) Set the MEMORY switch No.200(HiFi REC) to "ON" position. 2) Adjust R29 so that frequency at TP7 becomes 1.300±0.002MHz.
		TP8 (AUDIO-3) Frequency counter	R30 (AUDIO-3)	No input signal	REC VHS	3) Adjust R30 so that frequency at TP8 becomes 1.700±0.002MHz.
13	Hi-Fi audio FM output level	output (Front panel) (AUDIO-		MHAF-3	PB	1) Adjust R55 so that FM output level at the A-RF terminal inside the front panel becomes 100mVp-Note: If there is level difference in two channels, adjust the level by the channel having the lower level. Adjust the TRACKING VR to the best tracking position.
			A-RF ter	minal : 100	mVp-p	
14	Hi-Fi audio PB level	HiFi AUDIO OUT (600Ω terminator)	R15 (Lch) R16 (Rch) (AUDIO-3)	MHAF-3 (1kHz)	· PB	1) With the alignment tape MHAF-3 being played back, adjust R15(L-ch) and R16(R-ch) so that playback level of the 1kHz signal is —6.0dBs. Note: Adjust the TRACKING VR to the best tracking position.
			: Hi-Fi audio PB l	level: -6.0dBs		

3.2 AUDIO CIRCUIT (BR-S522U/BR-S525U)

Note • All adjustment values are balanced values with 600 Ω resistance. • Turn off the memory switch No.201 (DOLBY NR) unless otherwise indicated.

No.	Item	Check point	Adjustment	Signal	Mode	Check and Adjustment	
1	Hi-Fi audio carrier frequency	TP7 (AUDIO-3)	R29 (AUDIO-3)		No cas- sette	1) Adjust R29 so that frequency at TP 7 becomes 1.300±0.002MHz.	
	,	Frequency	carrier frequen	cy:1.300±	0.002MHz		
		TP8 (AUDIO-3)	R30 (AUDIO-3)	_	No cas- sette	1) Adjust R30 so that frequency at TP 8 becomes 1.700±0.002MHz.	
		Ref	carrier frequen	cy:1.700±	0.002MHz		
		Frequency Lcounter					
2	Hi-Fi audio PB level	HiFi AUDIO OUT (600Ω terminator)	R15 (Lch) R16 (Rch) (AUDIO-3)	MBAF-3 or MH-F6	РВ	1) Set the AUDIO PB LEVEL VR to the preset mod (knob is depressed). 2) Play back the 1kHz segment of the alignment tap MBAF-3 or MH-F6 while adjusting R15(L-ch) an	
		Hi-Fi audio PB level : -6.0dBs				R16(R-ch) to obtain —6.0 dBs as the playback level of the 1kHz signal respectively.	
3	HIFI AUDIO LEVEL METER	HiFi AUDIO OUT (600Ω terminator)	R87 : 2E (Lch) R88 : 2E (Rch)	MBAF-3 or MH-F6	РВ	 Set the AUDIO MONITOR switch to the "Hi-Fi" position. Adjust output level at the HiFi AUDIO output terminal to be -6.0dBs with the HiFi PB LEVEL 	
		AUDIO LEVEL METER : 0.0dBs			VR. 3) Reading the AUDIO LEVEL METER head-on, adjust R87(L-ch) and R88(R-ch) so that the met reads 0.0dB respectively.		
4	Hi-Fi audio FM output level	A-RF terminal (Front panel) (AUDIO-3)		MBAF-3	РВ	1) Adjust R55 so that FM output level at the A-RF terminal inside the front panel becomes 100mVp-Note: If there is channel difference, adjust at the smalle level.	
		Oscilloscope	A-RF tel	A-RF terminal : 100mVp-p			
5	Normal Audio	iio (600Ω (Lch)		MBA	ИВА РВ	1) Confirm that the MEMORY switch No. 201 (DOLBY NR) is set to "OFF".	
	playback level	terminator)	R26 : 5E (Rch) (AUDIO-1)			2) Set the AUDIO PB LEVEL VR to the preset mod (knob is depressed).	
		Playback level : -6.0dBs		'	3) Play back the alignment tape MBA.4) Adjust R25 (L-ch) and R26 (R-ch) to obtain		
		Note Confirm overshal	that the meter p	e meter pointer does not Search FWD/ REV mode.		dBs as the output level.	
6	Normal Audio playback frequency response N. AUDIO OUT (600 Ω terminator)		R125 : 6B (Lch) R126 : 5C (Rch) (AUDIO-1)	MH-6	РВ	 Make sure of the MEMORY switch No.201 (DOLBY NR) being set to "OFF". With the alignment tape MH-6, confirm that playback level of the 100Hz signal is -0.5dB as against playback level of the 400Hz signal. 	
		- Rated free	uency response	 - -	·	3) With the same tape used, adjust R125(L-ch) and	
		400Hz	100Hz	10ki		R126(R-ch) so that playback level of the 10kHz signal is +1.8dB compared with that of the 400h signal.	
		(Reference) -0.5±2.0	iB +1.8	aR	Signar.	

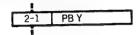
SECTION 4 DIAGRAMS AND CIRCUIT BOARDS

■ FOREWORD

1. Expression of connector

Connector is expressed in two ways.

1) The following illustrates 'CN2 pin 1' for example.



2) The following illustrates 'CN1 pins 1 and 2'.



2. Expression of wiring

As the following circuit diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

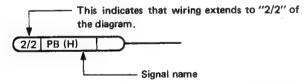
1) Circuit diagram divided into two or more sections:

Board No.	Board Name	Number of divided sections
02	MOTER-2	2 (1/2~2/2)
10	REC/PB Y	2 (1/2~2/2)
12	REC/PB COLOR	2 (1/2~2/2)
19	OUTPUT	2 (1/2~2/2)
21	AUDIO-1	3 (1/3~3/3)
23	AUDIO-3	2 (1/2~2/2)
31	M CTL/REEL SERVO	2 (1/2~2/2)
-	OVERALL	2 (1/2~2/2)

2) Indication of wiring which extends to another section:

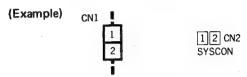
(Example)

On the "1/2" diagram of REC/PB Y board, such an indication as the following is found on the "PB (H)" signal line.



In the above case, the end of the wiring is connected to the "2/2-PB (H)" on the 2nd section of the diagram.

3. Wiring of connector



In the above example, CN1 is connected with CN2 on 1 2 SYSCON board.

Note: When one end of the connector's wiring is the MOTHER board, further destination of the wiring after the MOTHER board is shown in () nearby the connector.

4. Signal flow on the diagram

The following arrow marks indicate the specified signal paths respectively.

: RECORDING or EE signal path

: PLAYBACK signal path

: REC/PLAY signal path

5. Measurement of voltage and waveform

1) Voltage

Measured by digital voltmeter in REC mode.

Value in () shows voltage in S-VHS PB mode, and it is indicated only in the case PB voltage is different from that in REC.

2) Waveform

Video: Unless otherwise indicated, (a) color bars signal input through LINE IN terminal in REC in S-VHS mode, (b) color bars signal of MHV-2H alignment tape in PB.

6. Unit of value

Unless otherwise specified:

- 1) Resistance is in Ω (1/6 W)
- 2) Capacitance in µF
- 3) Inductance in µH
- 4) Screened parts (in are important for safety assurance. When replacing them, use specified parts.
- 5) Values without any indication in () are common to the BR-S822, BR-S622, BR-S522 and BR-S525.

CIRCUIT BOARD LOCATIONS 4.1

• Index to board by kind of diagram

This section contains merely the diagrams of the circuit boards that have been changed. For other circuit boards, refer to the service manual for BR-S822U/BR-S622U/BR-S522U/BR-S525U.

The Board Numbers () appearing in this section are the same as those in the service manual.

Board No.	Board Name	Page of diagram					
BOard No.	Board Name	Block diagram	Schematic diagram	Circuit board	Parts list		
01	MOTHER-1	_	4-8	4-9,4-18	6-2		
02	MOTHER-2		4-10,11	4-12	6-3		
03	SLOT MOTHER	*******	*1	*1	*1		
04	SYSCON MOTHER		*1	*1	*1		
05	FUSE	_	*1	*1	*1		
	REC/PB Y (NC LIM INC.)	*1	*1	*1	*1		
112	REC/PB C (CTC DL, CNR DL, DELAY TP INC.)	*1	*1	*1	*1		
115	PRE/REC	_	*1	*1	*1		
116	R/P ADJUST	*1	*1	*1	*1		
117	Y COMB (1H DELAY 4FSC INC.)	*1	*1	*1	*1		
119	OUTPUT	*1	*1	*1	*1		
20	FMA PRE/REC	*1	*1	*1	*1		
21	AUDIO-1	*1	*1	*1	*1		
22	AUDIO-2	*1	*1	*1	*1		
23	AUDIO-3	*1	4-14,15	4-13	6-3 ~ 5		
24	AUDIO-4 } XLR	*1	*1	*1	*1		
25	AUDIO-5	*1	*1	*1	*1		
26	AUDIO-6	*1	*1	*1	*1.		
27	JACK FRONT (BR-S822/BR-S622)	*1	*1	*1	*1		
28	VR J	*1	*1	*1	*1		
26	AUDIO-6		*1	*1	*1		
27	JACK FRONT (BR-S522)	_	*1	*1	*1		
28	VR J	_	*1	*1	*1		
29	A/C HEAD	_	-	*1	*1		
30	D/C SERVO	*1	*1	*1	*1		
31	M-CTL/REEL SERVO	*1	*1	*1	*1		
40	SYSCON	*1	*1	*1	*1		
41	AV MICOM/ON SCREEN	*1	4-16	4-17	6-6 ~ 8		
42	OPERATION (43, 44, 46, 47, 48 INC.)	_	*1	*1	*1		
45	COUNTER DISPLAY	_	*1	*1	*1		
70	REAR-1 (72 -2, 73 -3 INC.)	*1	*1	*1	*1		
80	METER (81 SWITCH, 82 TRACKING VR INC.)	*1	*1	*1	*1		
83	SUB PANEL (84 TP TERMINAL INC.)	_	*1	*1	*1		
91	DECK TERMINAL (92 -2 INC.)	_	*1	*1	*1		
93	CASSETTE HOUSING	_	-	*1	*1		

^{*1:} Refer to the BR-S822U/BR-S622U/BR-S522U/BR-S525U.

— DIAGRAM (1/3) —

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OVERALL WIRING

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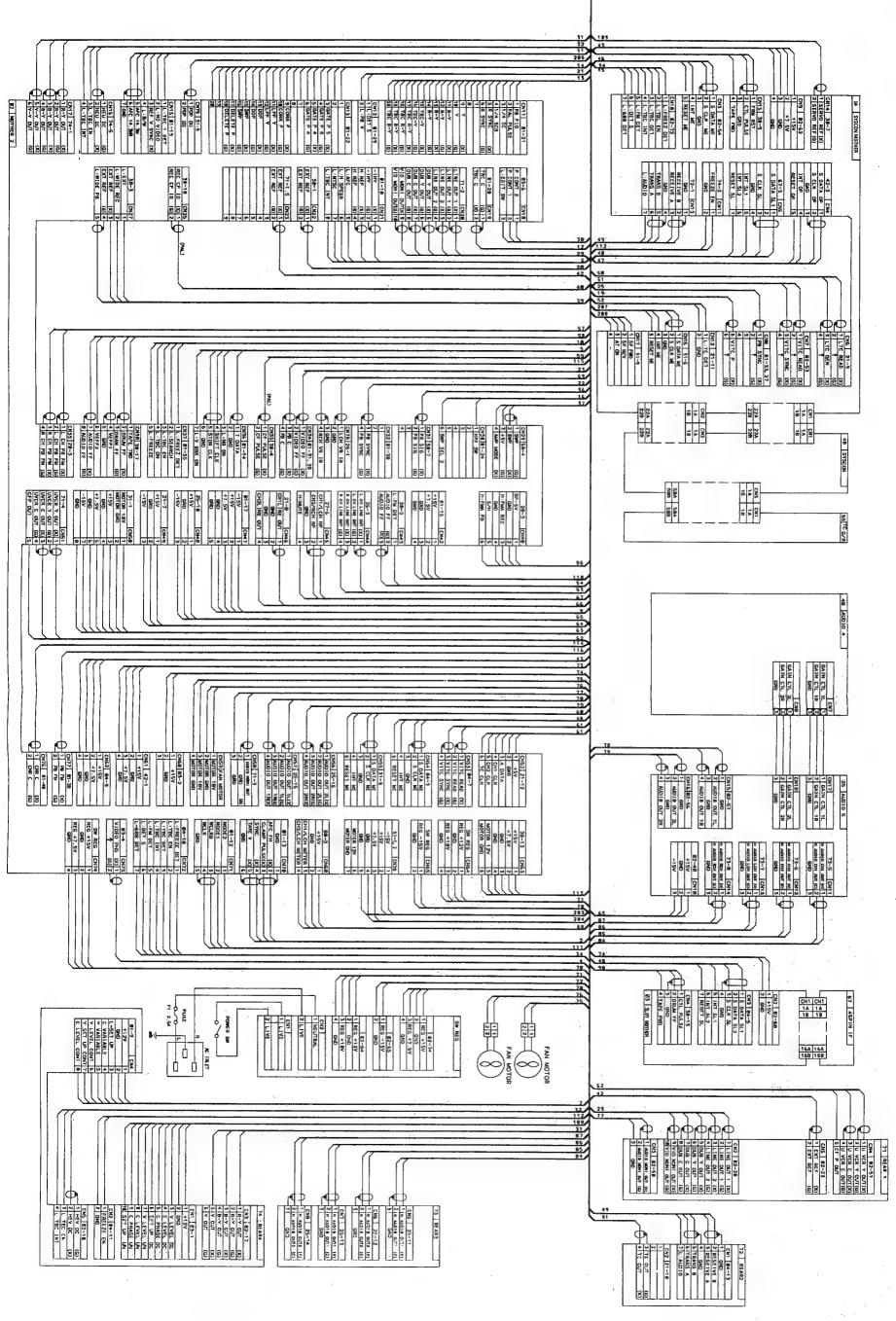
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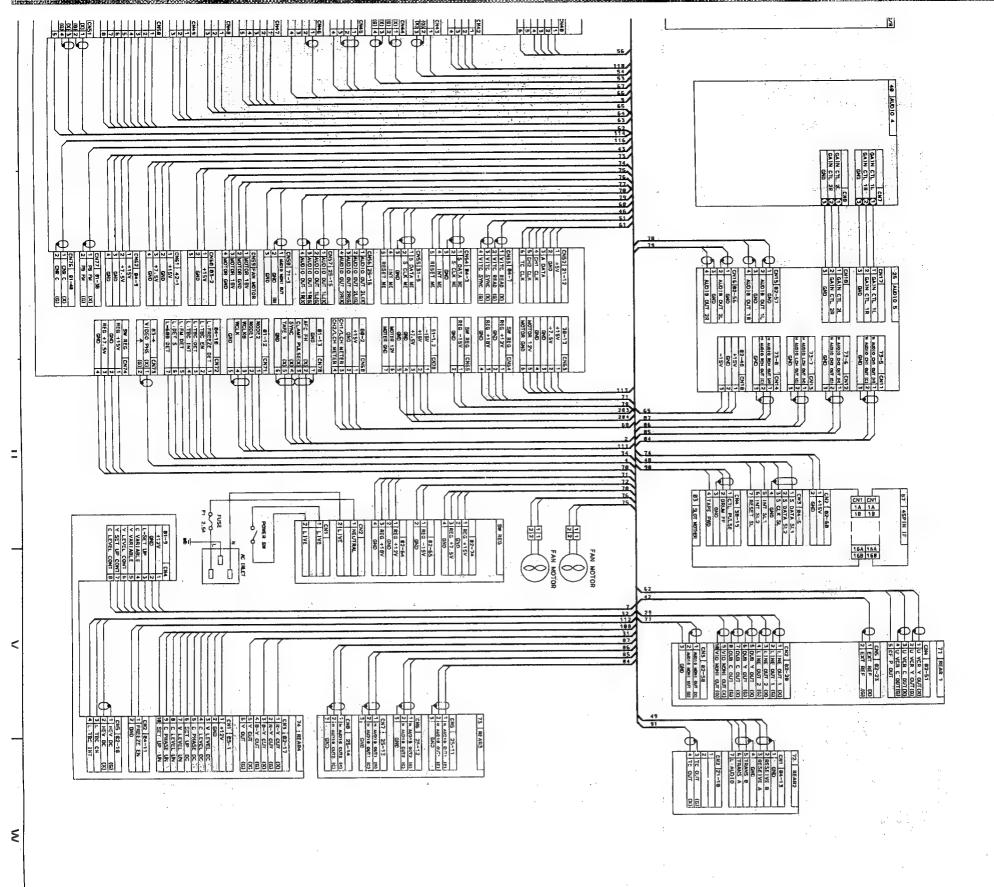
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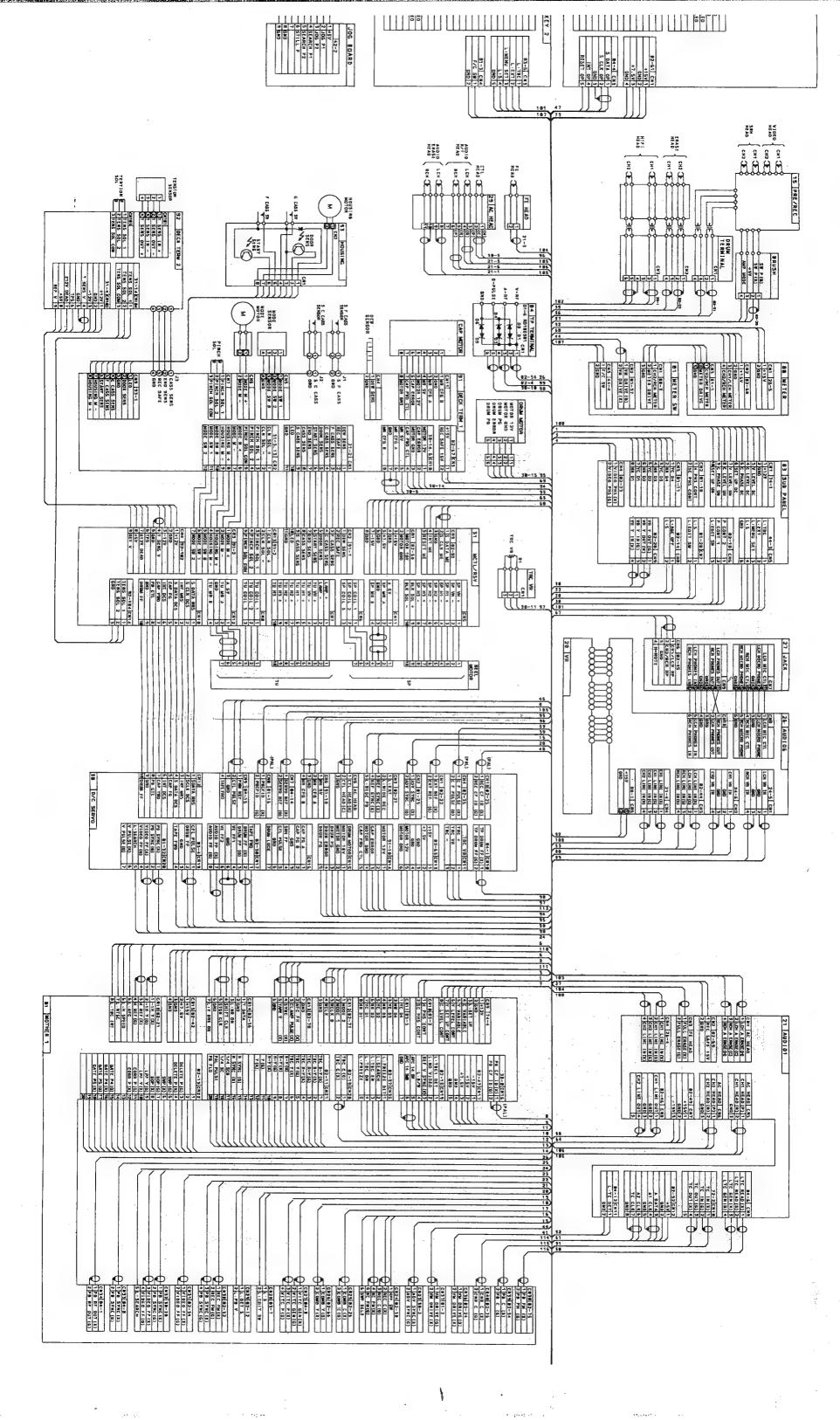


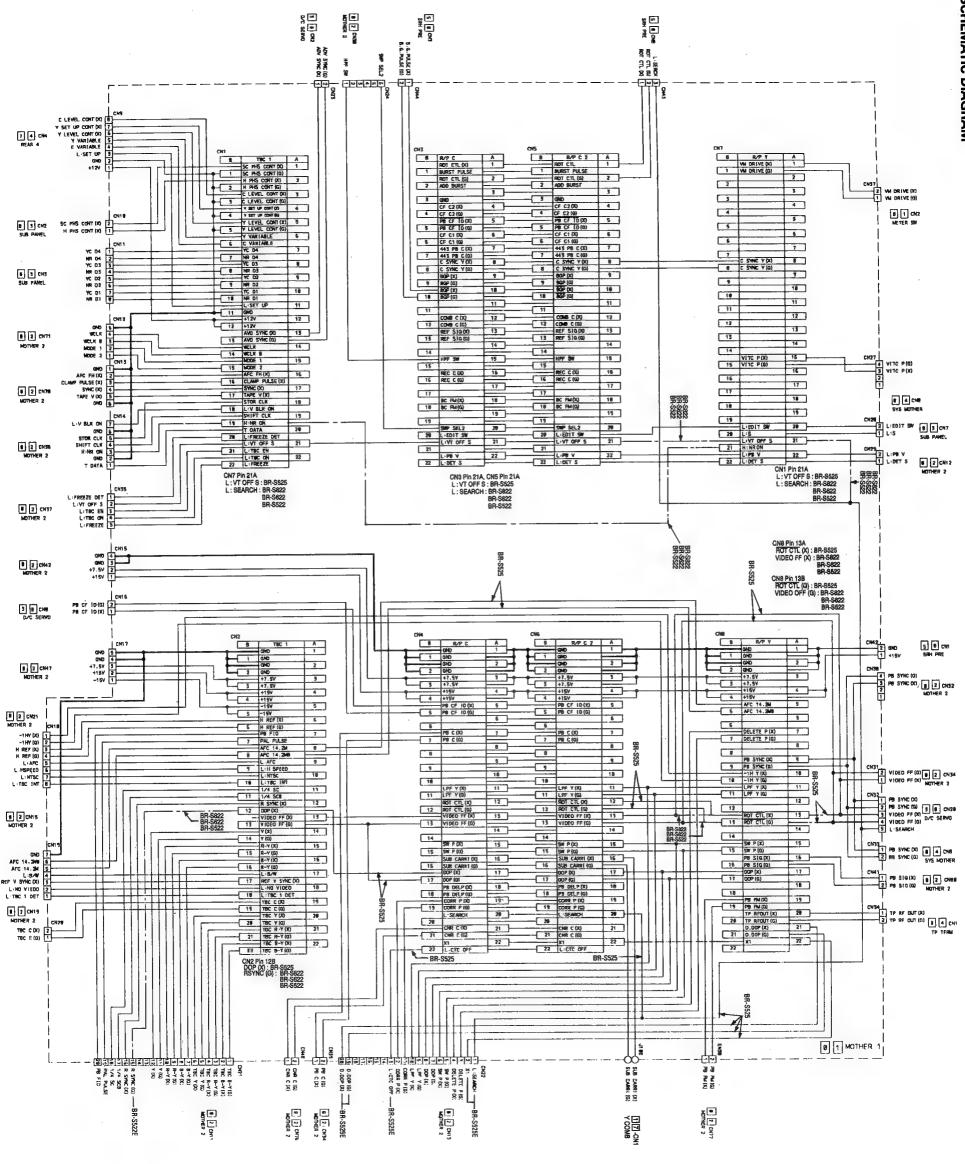
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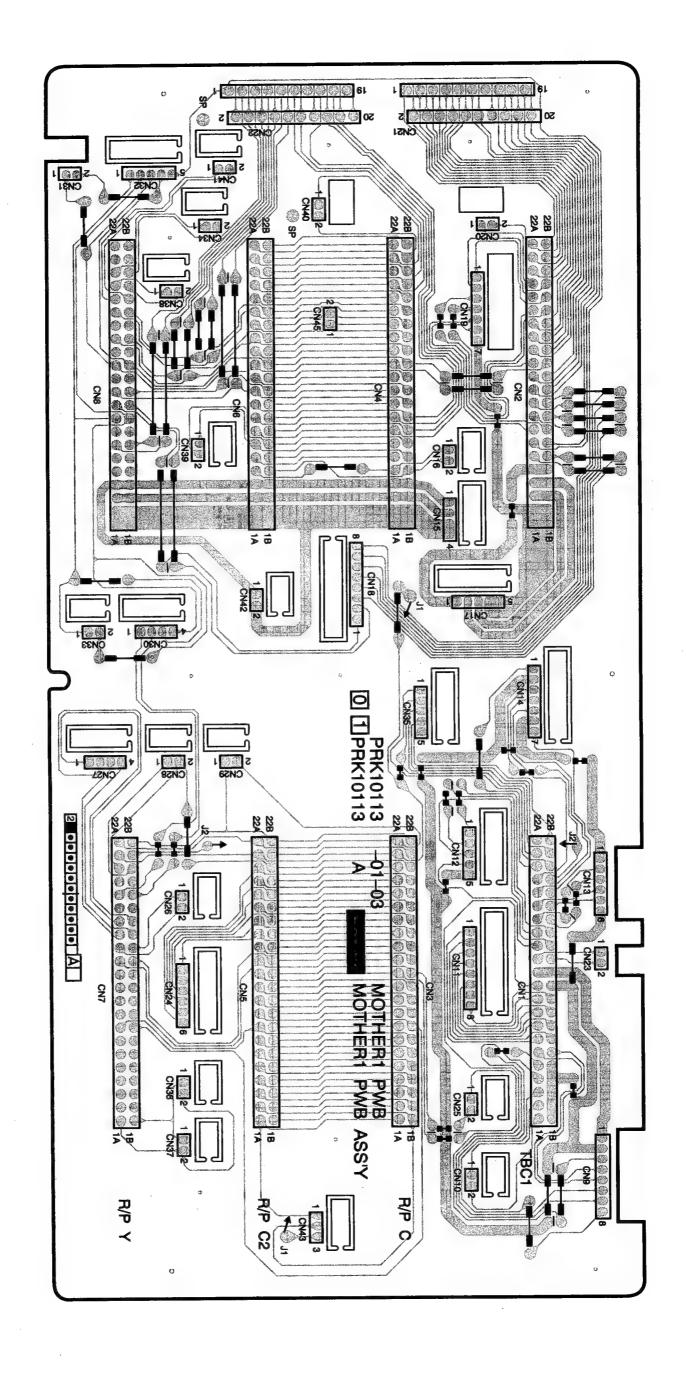
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MOTHER ROARD-2 SCHEMATIC

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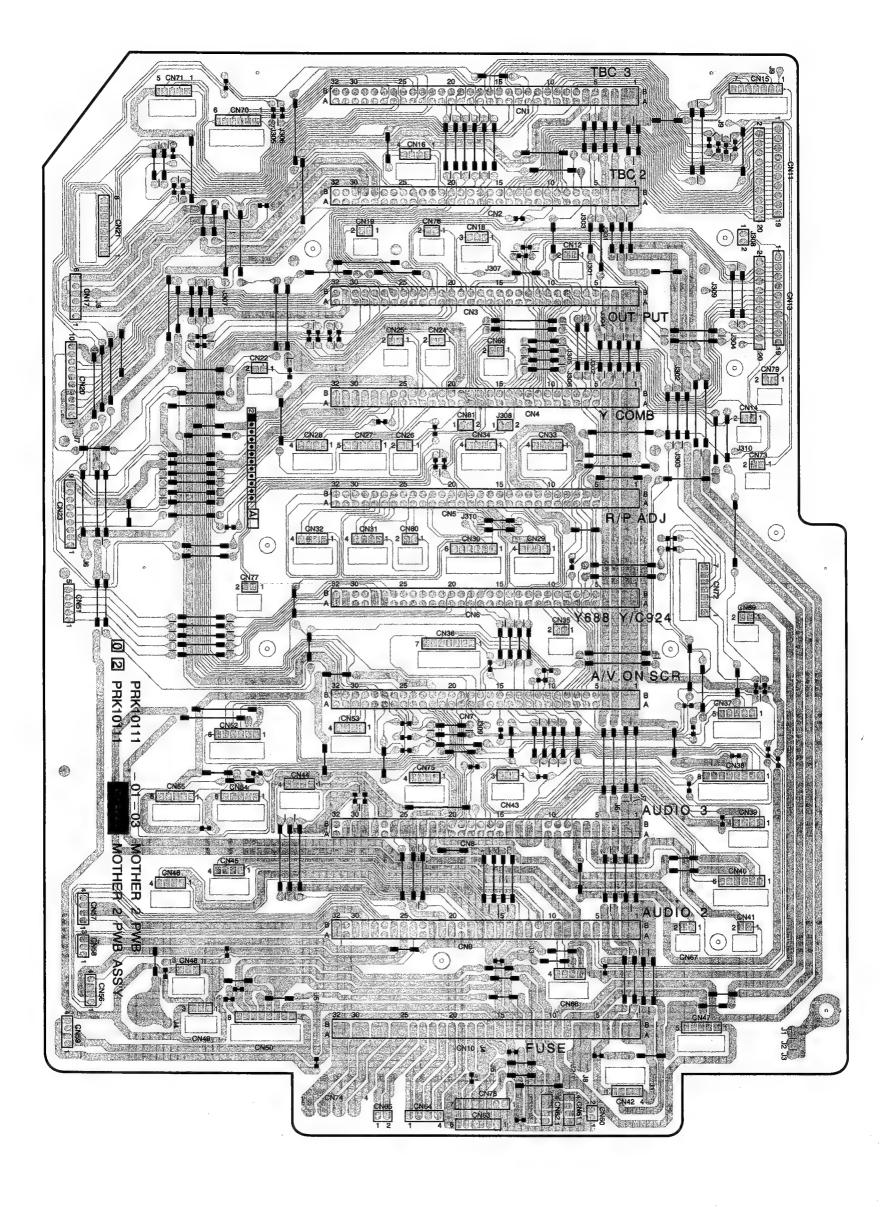
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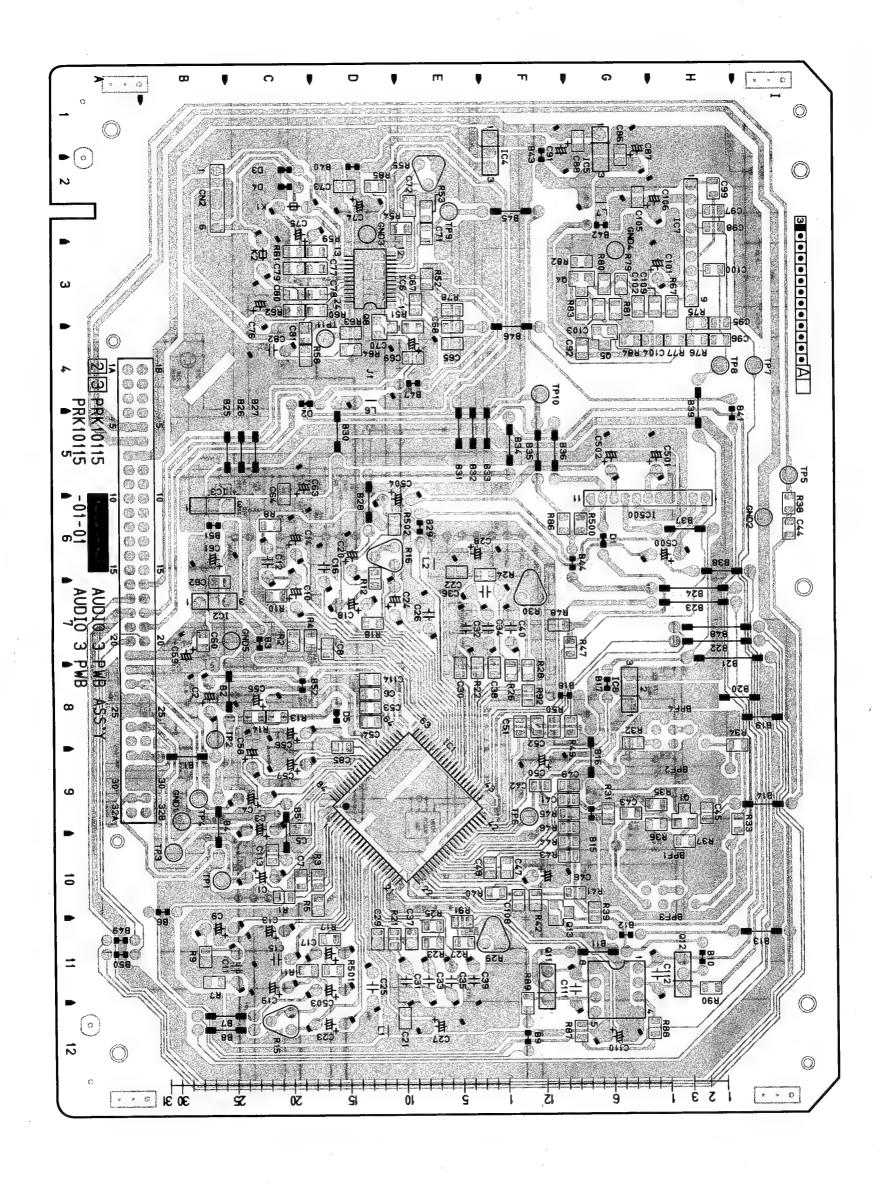
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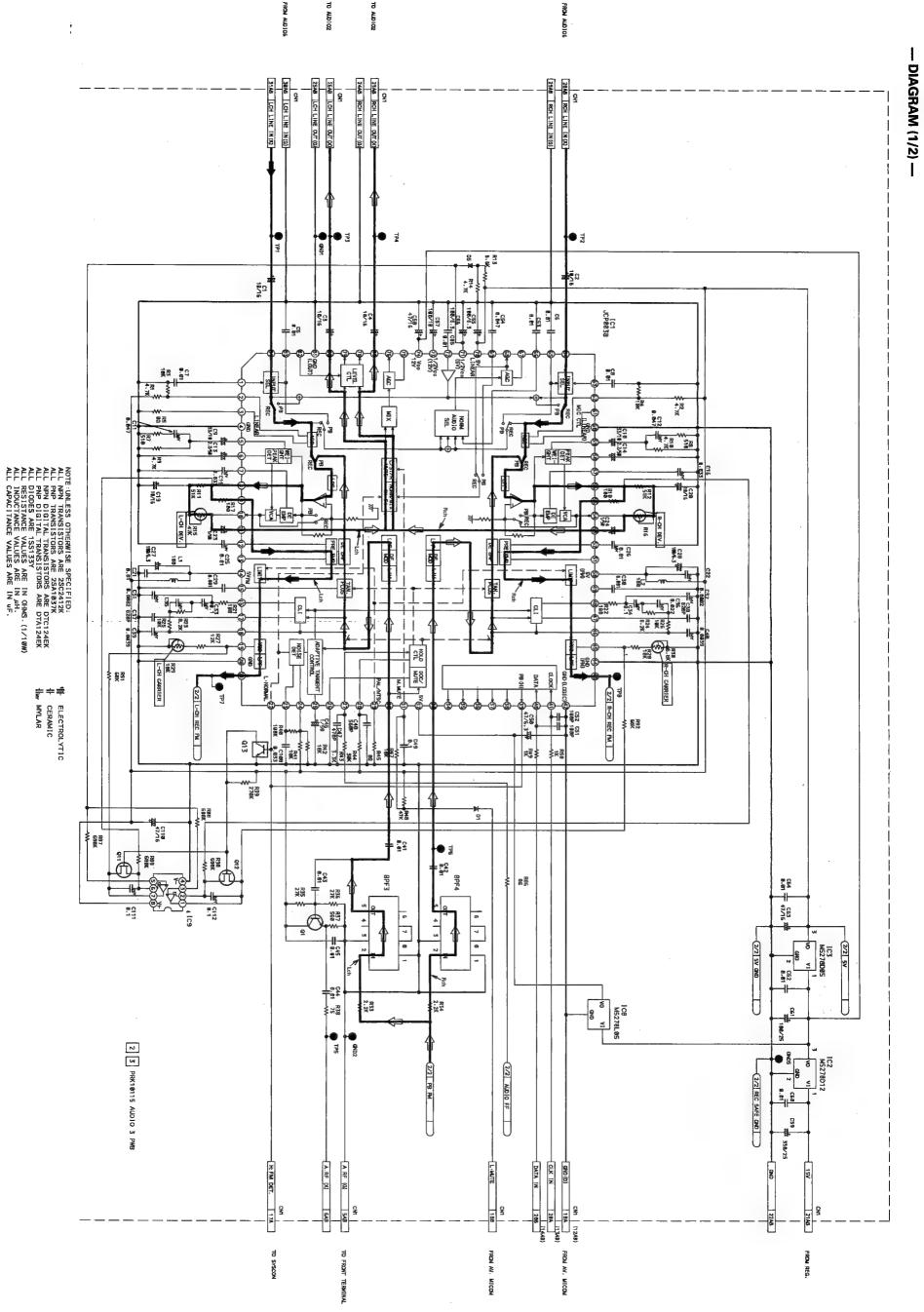
গারা AUDIO-3

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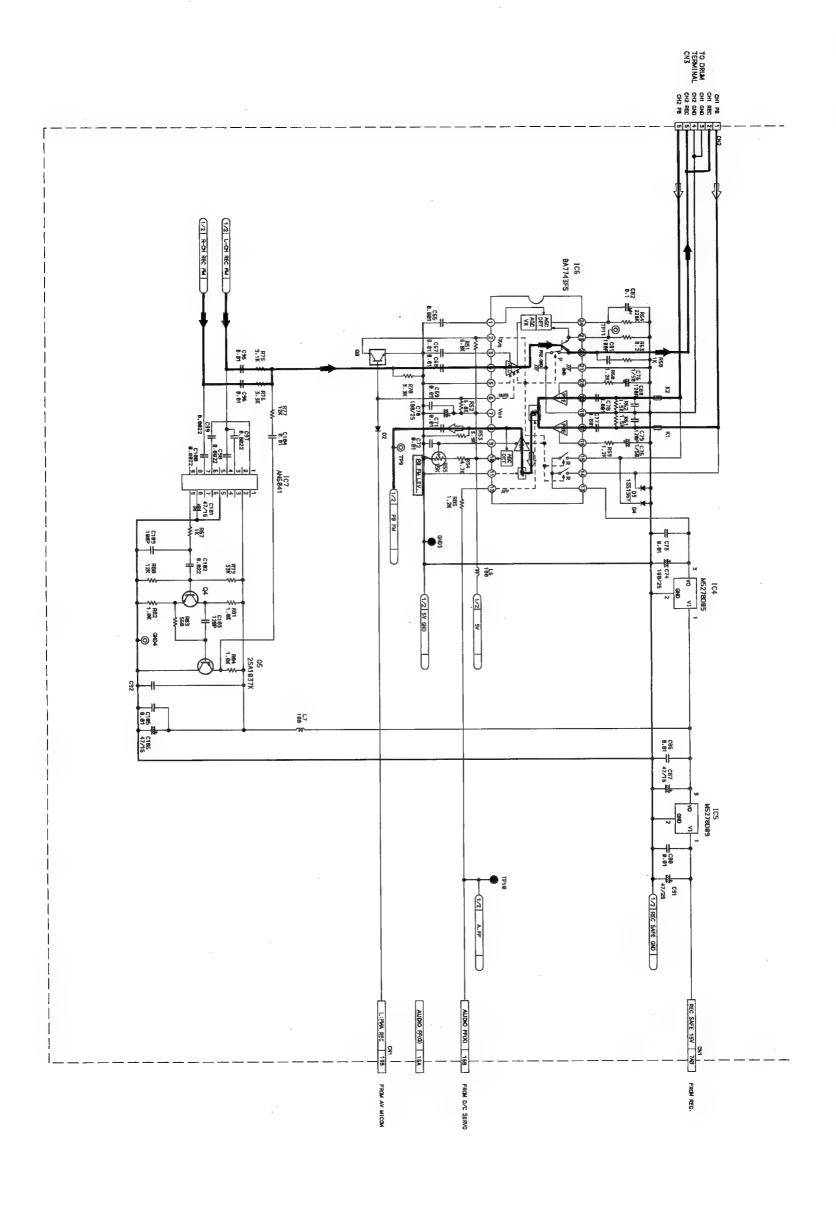
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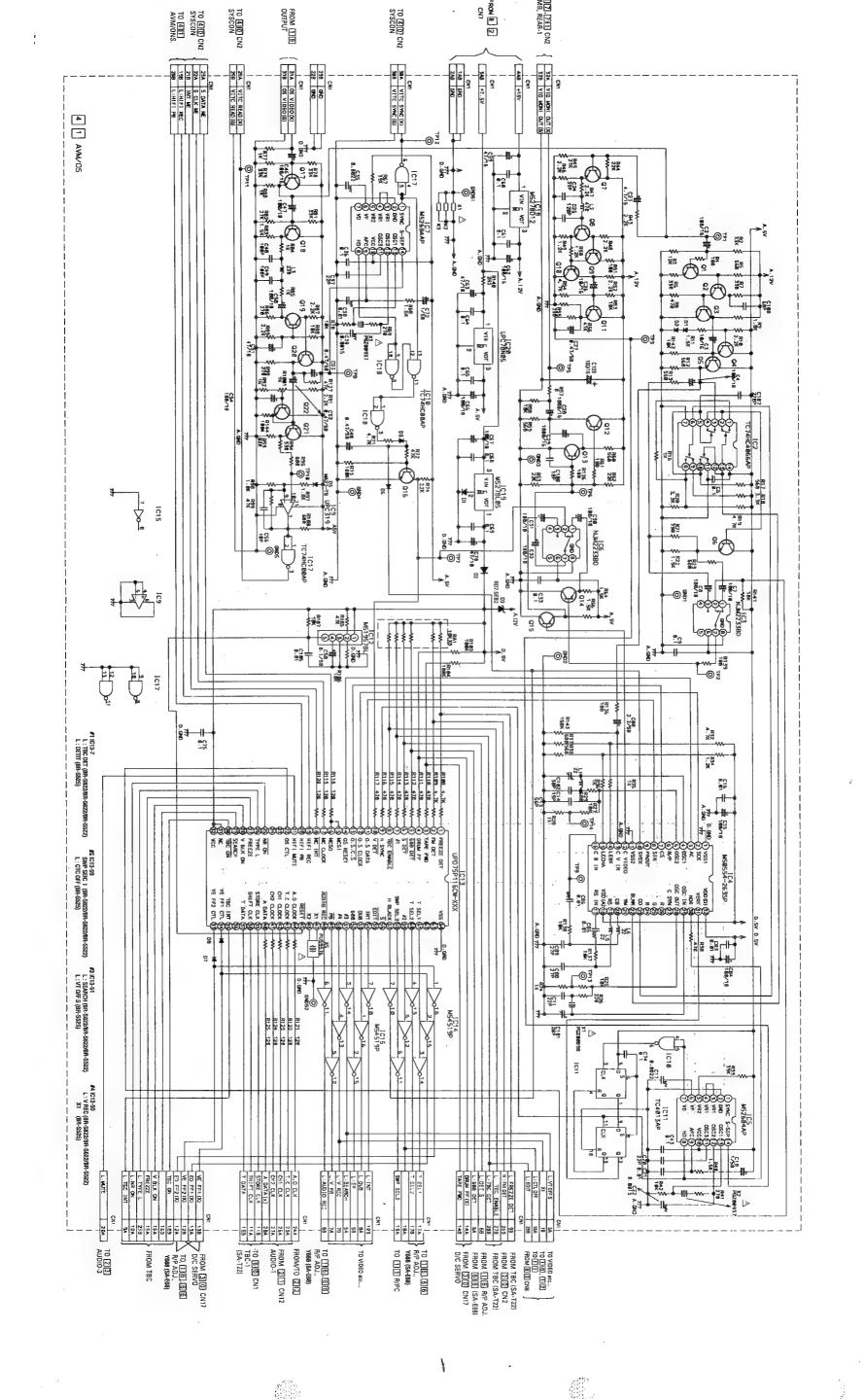
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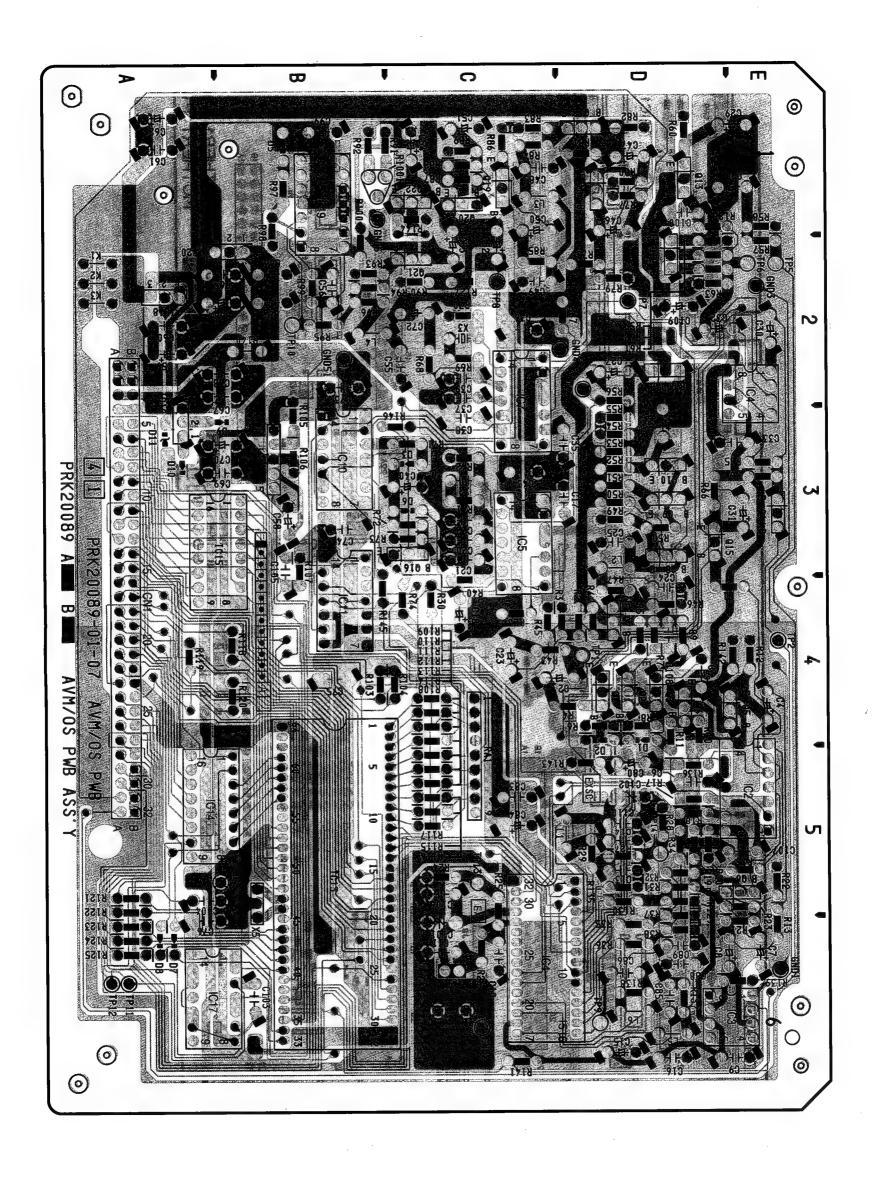
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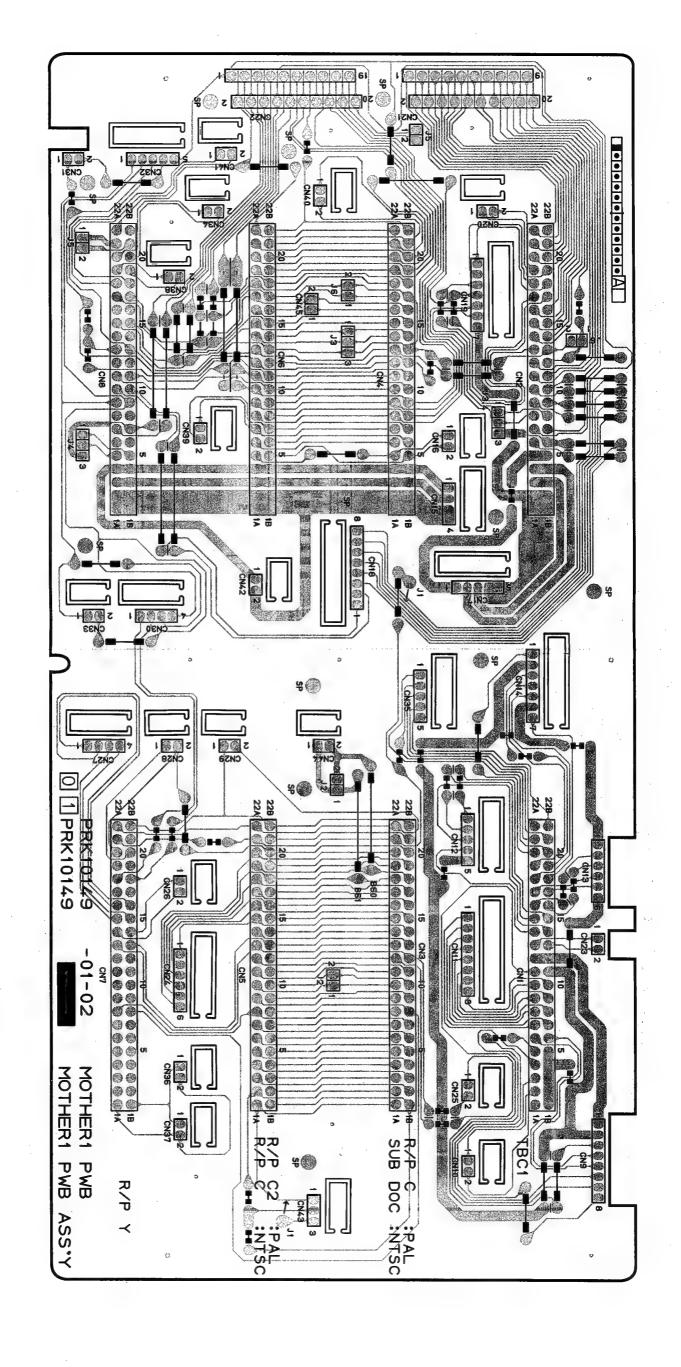
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SECTION 5 EXPLODED VIEWS AND PARTS LIST

SAFETY PRECAUTION

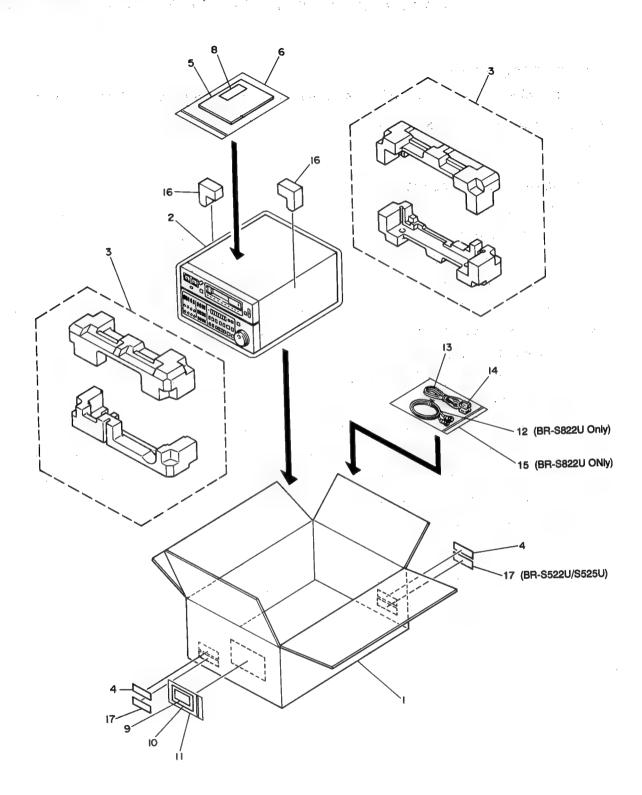
Parts identified by the riangle symbol are critical for safety. Replace only with specified part numbers.

NOTE: "X " indicates quantity per set.

		Page
EXPL	LODED PART NUMBER CODING	
5.1	PACKING ASSEMBLY <m1></m1>	5-2
5.2	CABINET ASSEMBLY <m2></m2>	5-4
5.3	CHASSIS ASSEMBLY <m3></m3>	5-6
5.4	FRAME ASSEMBLY <m4></m4>	5-8
5.5	REAR BRACKET ASSEMBLY <m5></m5>	5-10
5.6	MECHANISM 1 ASSEMBLY <m6></m6>	5-12
5.7	MECHANISM 2 ASSEMBLY <m7></m7>	5-14
5.8	CASSETTE HOUSING <m8></m8>	
5.9	DRUM ASSEMBLY <m9a></m9a>	5-18
5	5.9.1 Drum assembly (BR-S822U/S622U/S522U) <m9a></m9a>	5-18
5	5.9.2 Drum assembly (BR-S525U) <m9b></m9b>	
5.10	FRONT PANEL assembly	5-19
5	5.10.1 Cassette panel assembly <ma></ma>	5-19
5	5.10.2 Operation panel assembly <mb></mb>	5-20

EXPLODED PART NUMBER CODING

5.1 PACKING ASSEMBLY <M1>



PACKING ASSEMBLY M 1

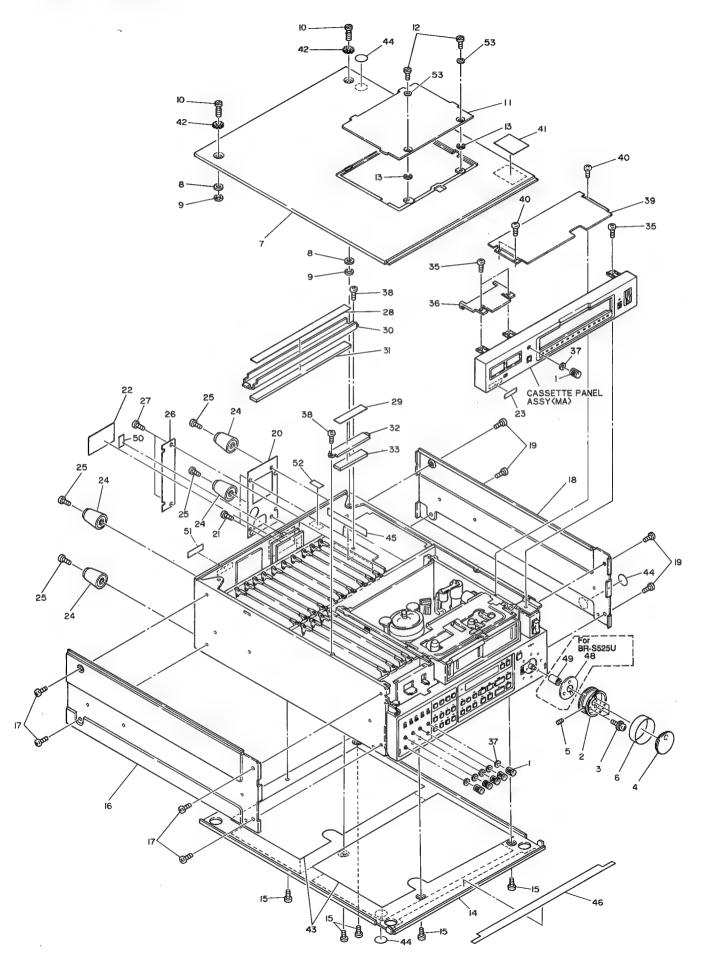
#A REF No. PART No.

PART NAME, DESCRIPTION

PACKING ASSEMBLY <M1>

1	PRD20370-02-01	PACKING CASE, \$822U
1	PRD20370-04-01	PACKING CASE, S622U
1	PRD20370-08	PACKING CASE, S522U
1	PRD20370-12	PACKING CASE, S525U
2	PGD30005-05	PE BAG
3	PRD10251A-02	CUSHION ASSY
4	PUP40619	SERIAL NO.STICKER, X2
 5	PGD30002-258-04	INSTRUCTIONS, S822U
⚠ 5	PGD30002-259-03	INSTRUCTIONS, S622U
∱ 5	PGD30002-282-02	INSTRUCTIONS, S522U
△ 5	PGD30002-294-03	INSTRUCTIONS, S525U
6	QPGB024-03404	POLY BAG
∧ 8	PU33941-3-3	SAFETY CAUTION
9	BT-20104A	TOLL FREE CARD
10	BT-20103A	WARRANTY CARD
11	PU54821	POLY BAG
12	PGZ00793-006	CABLE ASSY, S822U
_	QMP9003-022	POWER CORD
14	PUP40003-7	AIR CAP
15	QPGB020-02804	POLY BAG, S822U
16	PRD30848	SPACER CUSHION, X2
17	PRD43892	LABEL(PACKING), X2, S522U/S525U

5.2 CABINET ASSEMBLY <M2>



M2MM

#∆ REF No.	PART No.	PART NAME, DESCRIPTION
****	*****	******
	CABINET	ASSEMBLY <m2></m2>
1	PRD43431A-01	VR KNOB ASSY, X6
2	PRD30196-03	SEARCH KNOB
3	DPSP2006Z	SCREW, X3, \$822U/\$622U/\$522U
3	DPSP2012Z	SCREW, X3, S525U
4	PRD41819B	JOG KNOB ASSY
5	YWS3004B	SET SCREW
6	PRD41818	TIRE
7	PRD10247A-03	TOP COVER ASSY
8	PGD40255-02	SPACER, X2
9	REE3000	"E" RING, X2
10	PRD30081-03	COIN SCREW, X2
, 11	PRD30841-01-01	COVER
) 12	PRD30081-01-01	COIN SCREW, X2
13	REE2500	"E" RING, X2
△ 14	PRD10232-01-03	BOTTOM COVER
15	SDST3008Z	SCREW, X5
<u> </u>	PRD10233-01-04	LEFT SIDE COVER
17	SDSP4008R	SCREW, X4
<u> </u>	PRD10234-01-04	RIGHT SIDE COVER
19	SDSP4008R	SCREW, X4
∆ 20	PRD30730-02-04	REAR PANEL(B)
21	SDSP3006R	SCREW, X2
⚠ 22	PGD30021-59-32	
△ 22	PGD30021-57-32	• • • • • • • • • • • • • • • • • • • •
△ 22	PRD30085-07-20	RATING LABEL, S522U
△ 22	PRD30085-13-20	RATING LABEL, \$525U
23	PQ40111-1-5	SERIAL NO PLATE
24	QZF2319-001	FOOT, X4
25	SDSP4018M	SCREW, X4
∆ 26	PRD43423-01-04	REAR PANEL(C)
27	SDSP3006R	SCREW, X2
Ay 28	PRD30802-01-02	BOARD LABEL(A)
∌ 29	PRD43611-01-02	BOARD LABEL(B), \$822U/\$622U/\$522U
29	PRD43611-03	BOARD LABEL(B), S525U
30	PRD30840-01-02	BOARD HOLDER(A)
31	PRD30030-117	PAD
32	PRD44218	BOARD HOLDER(B)
33	PRD30030-118	PAD

SCREW, X3

SCREW, X2

SCREW, X3

WASHER, X2

CAUTION LABEL, X3

CAUTION LABEL

SPACER, S525U

COLLAR, S525U

SHEET, X2

SPACER

LABEL

TOP PLATE(L)

FELT WASHER, X6

HOUSING COVER

35

36 37

38

39

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41 42

43

46

48

49

₫ 44

∆ 45

SDST3008Z PRD30835-01-01

PGD40292

SBST3006Z

PRD20412

SDST3008Z

PGD41496-04

WB\$4000N

PRD30858

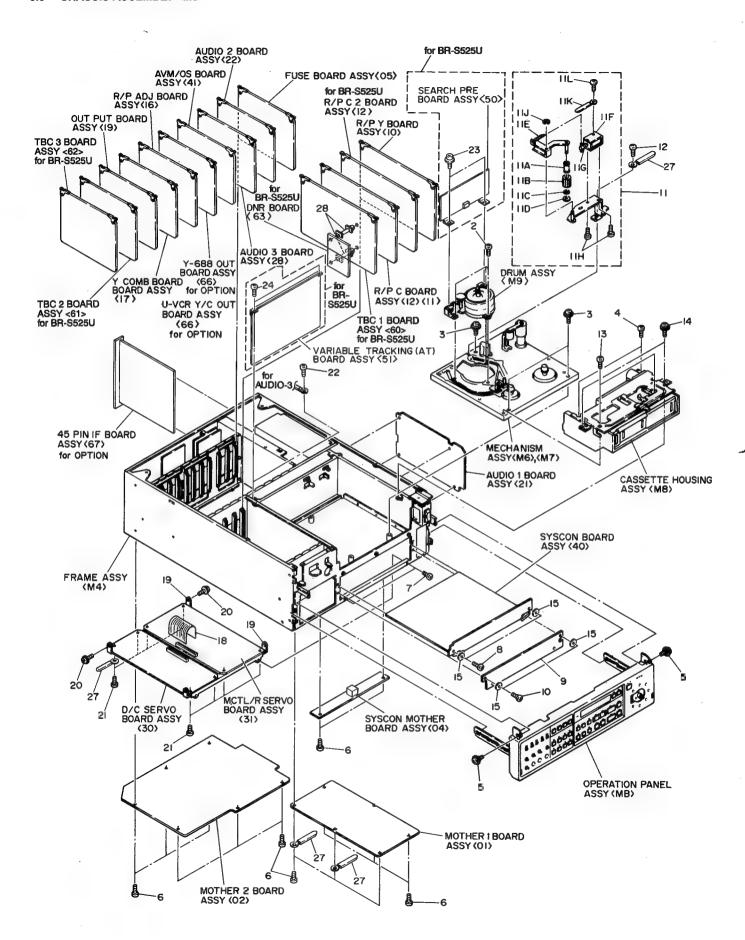
PU53146

PGD40888 PRD30861

PRD44134 PRD30026-47

#∆ REF N	o. PART No.	PART NAME, DESCRIPTION
<u>∧</u> 50	SS410172 or PGD40147-07	CSA LABEL CSA LABEL
51 <u>↑</u> 52 53	PRD43814 PU54551 WNB3000N	LABEL(PATENT) CAUTION LABEL WASHER, X2

5.3 CHASSIS ASSEMBLY <M3>



CHASSIS ASSEMBLY M3

	_				_
0.4		MM	II II	11 1	
IIIV/III	5 - 5 I	IIVIIIIVI	11 15	- 11 1	
4.4	LV	10 0 11 14 0 0			

#A REF No. PART No.

PART NAME, DESCRIPTION

CHASSIS ASSEMBLY <M3>

	2	LPSP2612Z	SCREW, X3
	3	LPSP4016Z	SCREW, X3
	4	PRD30027-04	SCREW, X2
	5	PRD30082	FLANGE SCREW, X2
	6	GBST3006Z	SCREW, X14
	7	SDST3006M	SCREW, X2
	8	PRD43457-01-01	SCREW, X2
	9	PRD30767	COVER
	10	PRD43457-01-01	SPECIAL SCREW, X2
	11	PRD30797A-03	HEAD CLEANER ASSY
	11A	PRD42664	CLEANER HOLDER
	11B	PRD40510-01-02	CLEANER
	11C	Q03093-829	WASHER
	11D	PQM30017	SLITWASHER
	11E	PRD30024-62	TENSION SPRING
Λ	11F	PU59401-2	SOLENOID
	11G	PRD30023-36	COMPRESSION SPRING
	11H	SPSP2003Z	SCREW, X2
	11J	REE2500	"E" RING
	11K	PU49485-3	WIRE CLAMP
	11L	SPSP2003Z	SCREW
	12	PRD30027-04	SCREW
	13	SDSP2608Z	SCREW, X2
	14	GBST3008Z	FLANGE SCREW, X2
	15	Q03093-517	WASHER, X4
	18	PGW0205-040100	FLAT WIRE
	19	PRD30762-01-02	BOARD BRACKET, X2
	20	PRD30082	FLANGE SCREW, X2
	21	GBST3006Z	SCREW, X8
	22	SBST3006Z	SCREW
	23	PRD30027-04	SCREW. X2, S525U
	24	SDST3008Z	SCREW, X2, \$525U
	27	PU49485-4	WIRE CLAMP, X4
	28	PGZ01786-02	PWB SPACER, X2, S525U

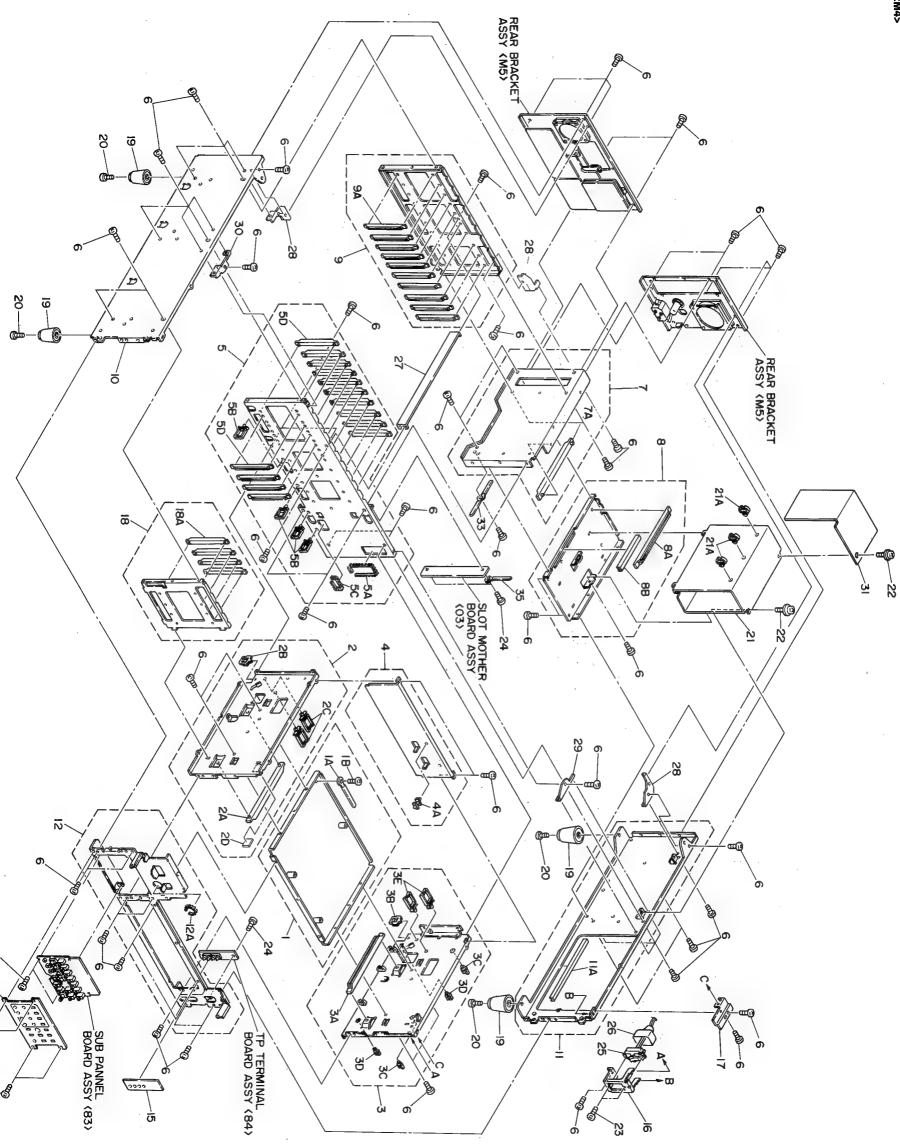
FRAME ASSEMBLY M4

#∆ REF No.	PART NAME, DESCRIPTION

FRAME ASSEMBLY <M4>

1	PRD20354A-06	MECHA HOLDER ASSY
1A	PU49485-4	WIRE CLAMP
1B	SBST3006Z	SCREW
2	PRD20374A-06	LEFT STAY ASSY
2A	PGZ00493-03	GUIDE RAIL
2B	PU49881	EDGE COVER
2C	PU43147-3	WIRE SADDLE, X2
2D	PRD30030-70	PAD
3	PRD20375A-07	RIGHT STAY ASSY
3A	PGZ00493-03	GUIDE RAIL
3B	PU49881	EDGE COVER
3C	PGZ00605	BOARD SPACER, X2
3D	PGZ00606	BOARD HOLDER, X2
3E	PU43147-3	WIRE SADDLE, X2
4	PRD20378B	CENTER BRACKET ASSY
4A	PU48016-2	M CLAMP
5	PRD20366A-07	CENTER FRAME ASSY
5A	PU43172-9-120	NYLON GROMMET
5B	PGZ00452-02	WIRE CLAMP, X4
5C	PU43172-9-65	NYLON GROMMET
5D	PGZ00493-02	GUIDE RAIL, X14
6	SBST3006Z	SCREW, X65
7	PRD20376A-01	GUIDE FRAME ASSY
7A	PGZ00493-03	GUIDE RAIL
8	PRD20377A-03	POWER FRAME ASSY
8A	PGZ00493-03	GUIDE RAIL
8B	PU43135-1-100	NYLON EDGGING
9	PRD20367A-03	REAR FRAME(C)ASSY
9A	PGZ00493-02	GUIDE RAIL, X10
10	PRD10237-01-03	LEFT SIDE FRAME
11	PRD10273A-01	RIGHT SIDE FRAME ASSY
11A	PU43153-1-200	NYLON EDGGING
12	PRD10248A-04	FRONT FRAME ASSY
12A	PU43172-9-89	NYLON GROMMET
13	SPST3006M	SCREW, X4
14	PRD30736-03-05	SUB PANEL(A), S822U/S622U
14	PRD30736-02-05	SUB PANEL(A), S522U
14	PRD30736-04-05	SUB PANEL(A), S525U
15	PRD43433	SUB PANEL(B)
16	PRD30739-01-04	POWER SWITCH BRACKET ASSY
17	PRD43708	TOP PLATE(R)
18	PRD30743A-01	FRONT BRACKET ASSY
18A	PGZ00493-02	GUIDE RAIL, X4
19	PRD43816	FOOT, X4
20	SBST3010Z	SCREW, X4
<u> </u>	PGZ01459-01-05	SWITCHING REGULATOR
21A	PU59311	WIRE CLAMP, X3
22	DPSP4008Z	ASSY SCREW, X2
23	LPSP3006Z	SCREW, X2
24	GBST3006Z	ASSY SCREW, X5
<u>∧</u> 25	PGZ00479	SEESAW SWITCH
<u>∧</u> 26	PRD42023	SWITCH COVER
27	PRD30836	CONNECTOR STAY
28	PRD43700	CORNER BRACKET, X3

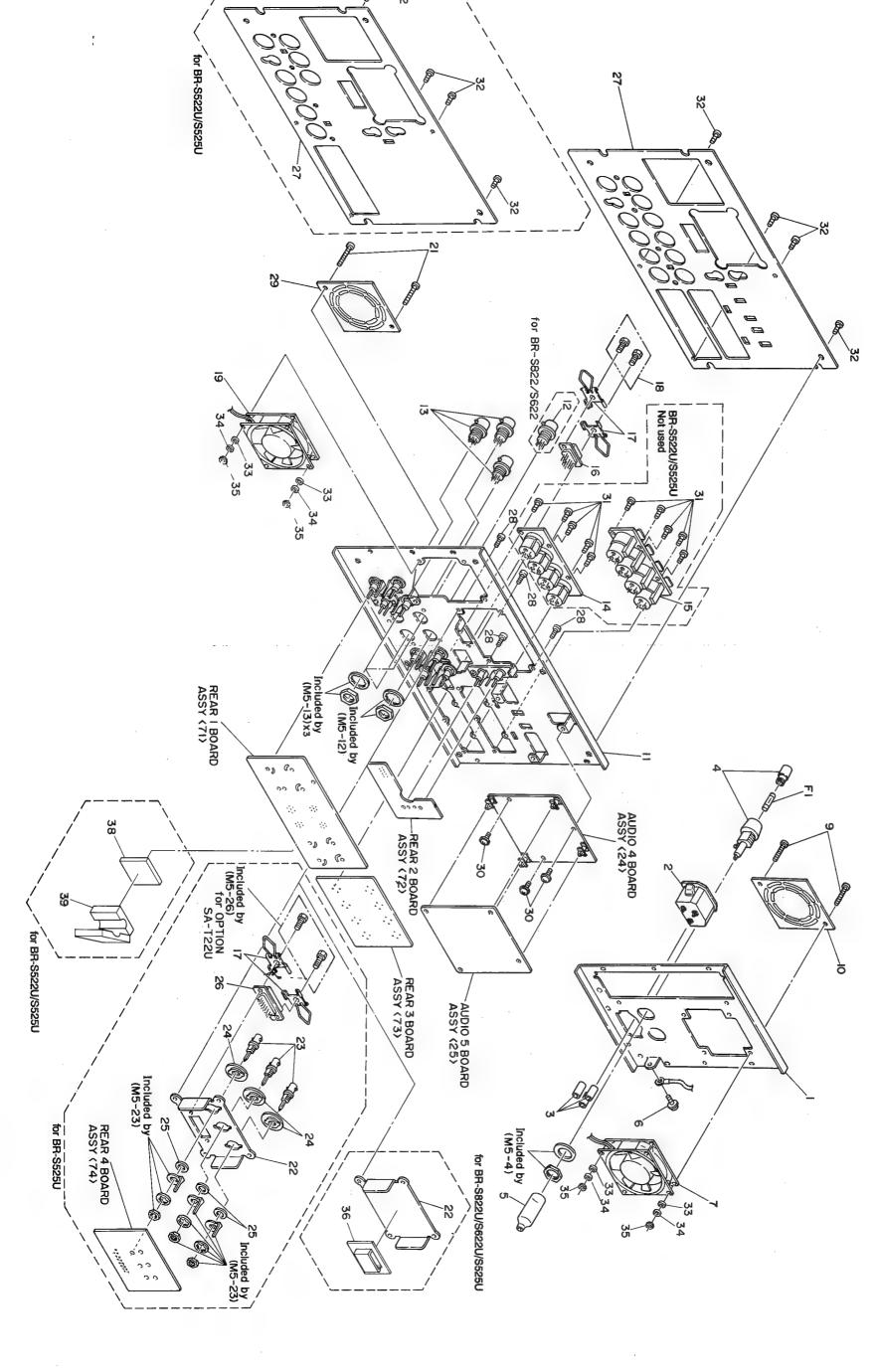
,		M 4 M M
⚠ REF No.	PART No.	PART NAME, DESCRIPTION
29 30	PRD43709 PRD43709-02	BRACKET BRACKET
▲ 31 33	PRD30857 PU49486	INSULATOR WIRE CLAMP



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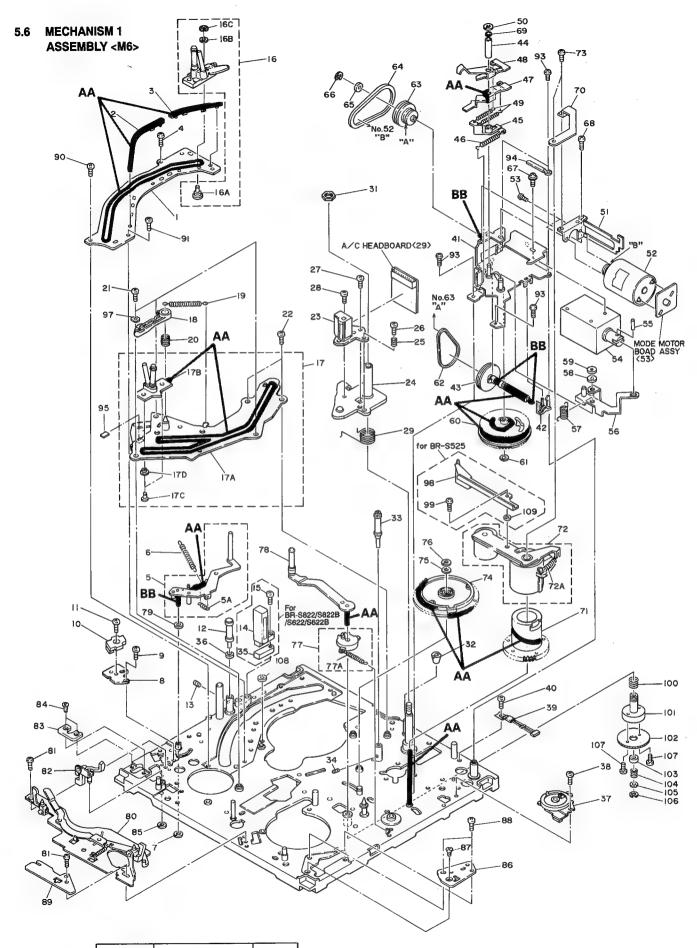
REAR BRACKET ASSEMBLY M 5

IK AT		N.A	B.A			$\overline{}$	Γ-
IIVII	ΙOΙ	IIVI	IIVII	1 1	l l	ΙI	ı

#≜ REF No. PART No. PART NAME, DESCRIPTION

REAR BRACKET ASSEMBLY < M5>

. 1		PRD20365-01-04	REAR FRAME(B)
∆ 2		PGZ00760	AC INLET
. 3		QXT695H-025	V.TUBE, X3
△ 4		QMG0301-004	FUSE HOLDER
<u> </u>		PU50316	FUSE COVER
Å 6		DPSP4008N	SCREW
△ 7		PGZ01137	FAN MOTOR
⚠	or	PGZ01974	FAN MOTOR
9		SDSP3025R	SCREW, X2
	or	SDSP3035R	SCREW, X2
10		PRD43465-02	FAN GUARD
11		PGZ01822	REAR FRAME(A) ASSY, S822U/S622U
11		PGZ01822-02	REAR FRAME(A) ASSY, S522U/S525U
12		PGZ01729	7P CONNECTOR, S822U/S622U INCL.11
	or	PGZ00592	7P CONNECTOR, S822U/S622U INCL.11
13		PGZ01730	7P CONNECTOR(OUT), X3 INCL.11
	or	PGZ00593	7P CONNECTOR(OUT), X3 INCL.11
14		PGZ01208	XLR CONNECTOR, MALE
15		PGZ01209	XLR CONNECTOR, FEMALE (S822U/S622U)
16		PGZ01733	9P CONNECTOR, REMOTE, INCL.11
	or	PGZ00915	9P CONNECTOR, REMOTE, INCL.11
17		PGZ01734	SPRING LOCK, X2, S822U/S622U/S522U
	or	PGZ00924	SPRING LOCK, X2, S822U/S622U/S522U
17		PGZ01734	SPRING LOCK, X4, S525U INCL.11
	or	PGZ00924	SPRING LOCK, X4, S525U INCL.11
18		PGZ01735	SCREW, 2 IN 1 INCL.11
	or	PGZ00925	SCREW, 2 IN 1 INCL.11
∆ 19		PGZ01137	FAN MOTOR
	or	PGZ01974	FAN MOTOR
0.4		00000000	0005141.7/0
21		SDSP3025R	SCREW, X2
∆ 22		PRD43424-01-04	REAR PANEL(D), \$822U/\$622U/\$522U
22		PGZ01698-01-01	REAR PANEL(D)ASSY, S525U
23		PGZ00440	BNC CONNECTOR, X3, S525U
24		PU48611	RING, X3, S525U
25		Q03093-439	WASHER, X3, S525U
26		PGZ00755	15P CONNECTOR, TBC REMOTE
26		PGZ01732	15P CONNECTOR(D), \$525U
<u> </u>		PRD30729-02-06	REAR PANEL(A), S822U/S622U
27		PRD30729-04	REAR PANEL(A), S522U
<u>∧</u> 27		PRD30729-04-06	REAR PANEL(A), \$525U
28		SDSP3006R	SCREW, X4
29		PRD43465-02	FAN GUARD
30		GBST3006Z	SCREW, X3
21		CDCDOCOEN	COEW VIA COSSIVERSU
31 31		SPSP2605N SPSP2605N	SCREW, X10, S822U/S622U SCREW, X5, S522U/S525U
31		SDSP3006R	SCREW, X4
32 33		WNS3000N	WASHER, X4
33 34		WLS3000N	L.WASHER, X4
34 35		NFS3000N	NUT, X4
35 36		PGZ01086	FLAT CABLE CLIP, S822U/S622U/S522U
36 38		PRD30083-03	SPACER, X2, S522U/S525U
39		PGZ01769-05	FERRITE CORE, \$522U/\$525U
39		1 0201708-03	1 ETHIL OUTE, 33220/33230
 ★ F 1		QMF51J1-3R15N	FUSET3.1A
43 1 1		Gilli O IO I OFTION	I VVLIV.IA



Category JVC part number MARK

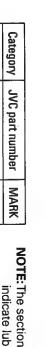
Grease MOS2-C AA

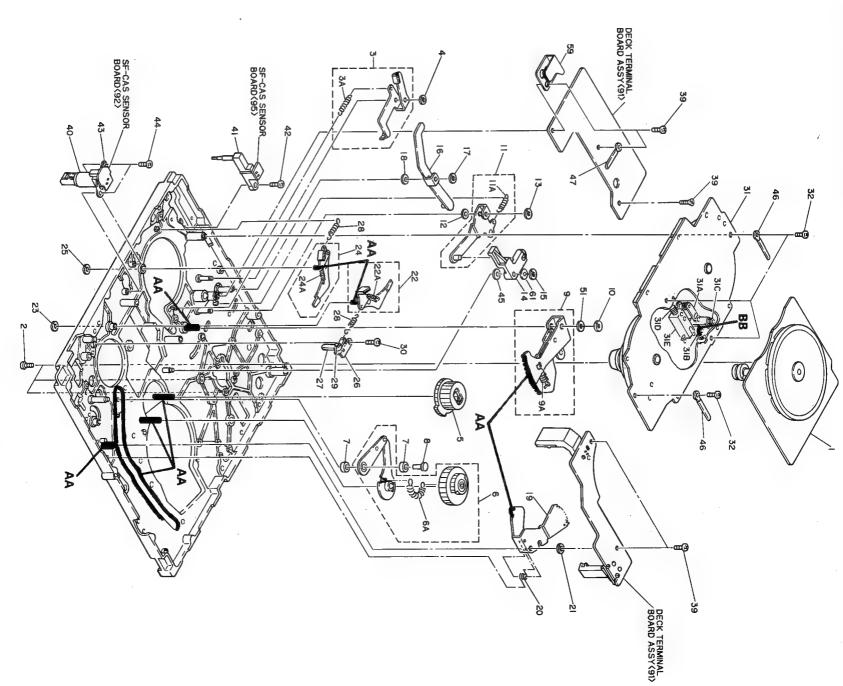
Oil COSMO-HV56 BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

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MECHANISM 1 ASSEMBLY	MG						
¢∆ REF No. PART No.	PART NAME, DESCRIPTION	#≜ REF No.	PART No.	PART NAME, DESCRIPTION	#∆ REF No.	PART No.	PART NAME, DESCRIPTION
***********	**************************	46	PQM30001-313	TENSION SPRING	97	PRD44013-02	STOPPER PLATE
MECHANISM	MECHANISM 1 ASSEMBLY <m6></m6>	48	PHD44109	LOCK LEVER 3	99 8	DPSP3006Z	SCREW, S525U
		49	PQM30001-314	TENSION SPRING, X2	100	PRD30023-48	COMPRESSION SPRING
	SUB DECK(S)	50	PQM30017-6	SLIT WASHER	2	777 10000	21 SCHIES
2 PQ33994	GUIDE RAIL 1(S)	ŋ	מססססס	MOTOR RRACKET	ig 101	PRD43800	BUSHING ADJUST GEAR
4 SDST2605Z	SCREW	55 º	PRD44123A	MODE MOTOR ASSY	103	PRD43804	COLLAR
	TENSION ARM ASSY	\$Z \$	SPSP3003Z	SCREW, X2	104	PRD30023-49	COMPRESSION SPRING
⋗	TENSION SPRING	51	PGZ01845-02	SOLENOID	105	WSS3000Z	WASHER
	TENSION SPRING	g	PSE3010	SPRING PIN	106	REE2500	"E" RING
	SLIT WASHER	56	PRD44106A	SOLENOID LEVER ASS'Y	107	SPSP2004Z	SCHEW, X2
9 SDSP2004Z	SCREW	58	003093-818	WASHER WASHER	<u> </u>	PRD30029-05	WASHER, S525U
0	TENSION SENSOR	y 6	POM30017-12	SLIT WASHER	į		
		ළ ද	PQ21313-1-1	CAM GEAR			
	SCREW						
	GUIDE ROLLER ASSY	61	PQM30017-12	SLIT WASHER			
13 YFS2603B	CHEW CHEW	8 8	PRD30022-17	CONNECT BILL EV			
15 SDSP2614Z	SCREW, S822U/S622U	2 S	PRD30022-18	BELT			
	POLE BASE (SUPPLY) ASSY	6 5	Q03093-829	WASHER			
	STOPPER(S2)	66	REE1200				
16C REE1500	"E" RING	B 0	SDSP36047	SCREW			
17 PRD43747A-06	LOADING (TAKE-UP) ASSY	69	Q03093-825	WASHER			
	GUIDE RAIL ASSY	70	PRD44103	ARM			
17C PRD43819	SPECIAL SCREW, X2	71	PQ21312	P.ROLLER CAM			
O	COLLAR	72	PRD43387A-01	PINCH ROLLER ARM ASSY, S822U/S622U/S522U			
18 POM30001-317	C.GOUDE ARM	3	or PHD43387B-01	PINCH HOLLER ARM ASSY, SEZZUJSSZZUJSSZZU			
	C SPRING	16	or PRD43387D	PINCH ROLLER ARM ASSY, S525U			
		72A		TENSION SPRING			
	SCREW, X3	! 73	SDSP2605Z	SCREW, X2			
23 PG701840	ALIDIO/CONTROL HEAD	4 4	PUZ1315-1-2	CONTROLCAM			
	HEAD ARM ASS'Y	76	PQM30017-28	SLIT WASHER			
	COMPRESSION SPRING	77	PRD43791A-01	GUIDE ARM GEAR ASSY			
	SCREW	77A	PRD30024-64	TENSION SPRING			
	SPECIAL SCHEW	78	PRD43404D-04	GUIDE ARM ASS'Y			
29 PQ44119	TORSION SPRING	8 8	PRD44248A	G.PIN ASS'Y			
		8					
	NYLON NUT	8	SDSP2605Z	SCREW, X2			
33 PRD44151A-01	GUIDE BOLLER ASSY	3 8	PHD44184A	SOCKET I			
	SPECIAL SCREW	2 2	SSSP2604Z	SCREW, X2			
	FULL ERASE HEAD BASE, S822U/S622U	89	PQM30017-6	SLIT WASHER			
	"O" RING	86	PRD43889	SOCKET R			
	ROTARY ENCORDER	87	SSSP2604Z	SCREW			
	DEM SENSOR	8 88	SDSP2604Z	AD ILET BLATE ASSV			
40 SDSP2004Z	SCREW	B 8	SDSP2608M	SCREW			
	SCHEW	80	SUSPZOUOM	OCCUPANT OF THE PROPERTY OF TH			
41 PRD44105A	SOLENOID BRACKET ASS'Y	91	SPSH2635M	MINI SCREW			
42 PQ44129	WORM BEARING 2	92	SDST2605Z	SCREW, X4			
44 PRD44108	COLLAR	, ç	PRD43826	SPACER			
	LOCK LEVER 1	g	FRUHORO	G POPE			

BB AA





NOTE: The section marked in AA and BB indicate lubrication and greasing areas.

XI)4.

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MECHANISM 2 ASSEMBLY M 7

#A REF No.	PART NAME, DESCRIPTION

	MECHANISM	2 ASSEMBLY <m7></m7>	
↑ 1 2 3 3A 4 5 6 6A 7 8 9 9A 10	PGZ01535-01-01 SDSP2608Z PRD43479A-01 PRD30024-58 PQM30017-6 PQ34033 PRD43473A-03 PQM30001-318 PRD44019 PRD43818 PQ45306B-3 PQM30001-320 REE3000	CAPSTAN MOTOR SCREW, X3 R.BRAKE ASS'Y TENSION SPRING SLIT WASHER LOADING GEAR(T) L.GEAR(S)ASS'Y TENSION SPRING COLLAR SPECIAL SCREW ARM GEAR ASS'Y TENSION SPRING "E"RING	
11 11A 12 13 14 15 16 17 18 19 20	PQ45304A PQM30001-319 Q03093-825 PQM30017-6 PQ34005-1-2 PQM30017-6 PRD43464A PQM30017-6 Q03093-825 PQ34007 PQ45313	F.L.LEVER ASS'Y TENSION SPRING WASHER SLIT WASHER LOCK ARM SLIT WASHER C.H.LEVER ASS'Y SLIT WASHER WASHER CANCEL LEVER TORSION SPRING	
21 22 22A 23 24 24A 25 26 27 28 29	PQM30017-12 PRD43388A-02 PRD30024-53 PQM30017-6 PRD43395A-02 PRD30024-53 PQM30017-6 PRD43397A-01 PRD43400 PRD43401 PQM30017-25 SDST2604Z	SLIT WASHER B.LEVER(L)ASS'Y TENSION SPRING SLIT WASHER B.LEVER(R)ASS'Y TENSION SPRING SLIT WASHER LEVER BASE ASSY F/C LEVER TENSION SPRING, X2 SLIT WASHER SCREW	
△ 31 31A 31B 31C 31D 31E 32 39	PGZ01541A-04 PGZ01541-001 PGZ01541-002 PGZ01541-003 PGZ01541-004 PGZ01541-005 SDST2606Z SDST2605Z PU61174	REEL MOTOR IDLER GEAR ASSY LED HOLDER ASSY COMPRESSION SPRING COMPRESSION SPRING SOLENOID SCREW, X4 SCREW, X5 CASSETTE SWITCH	

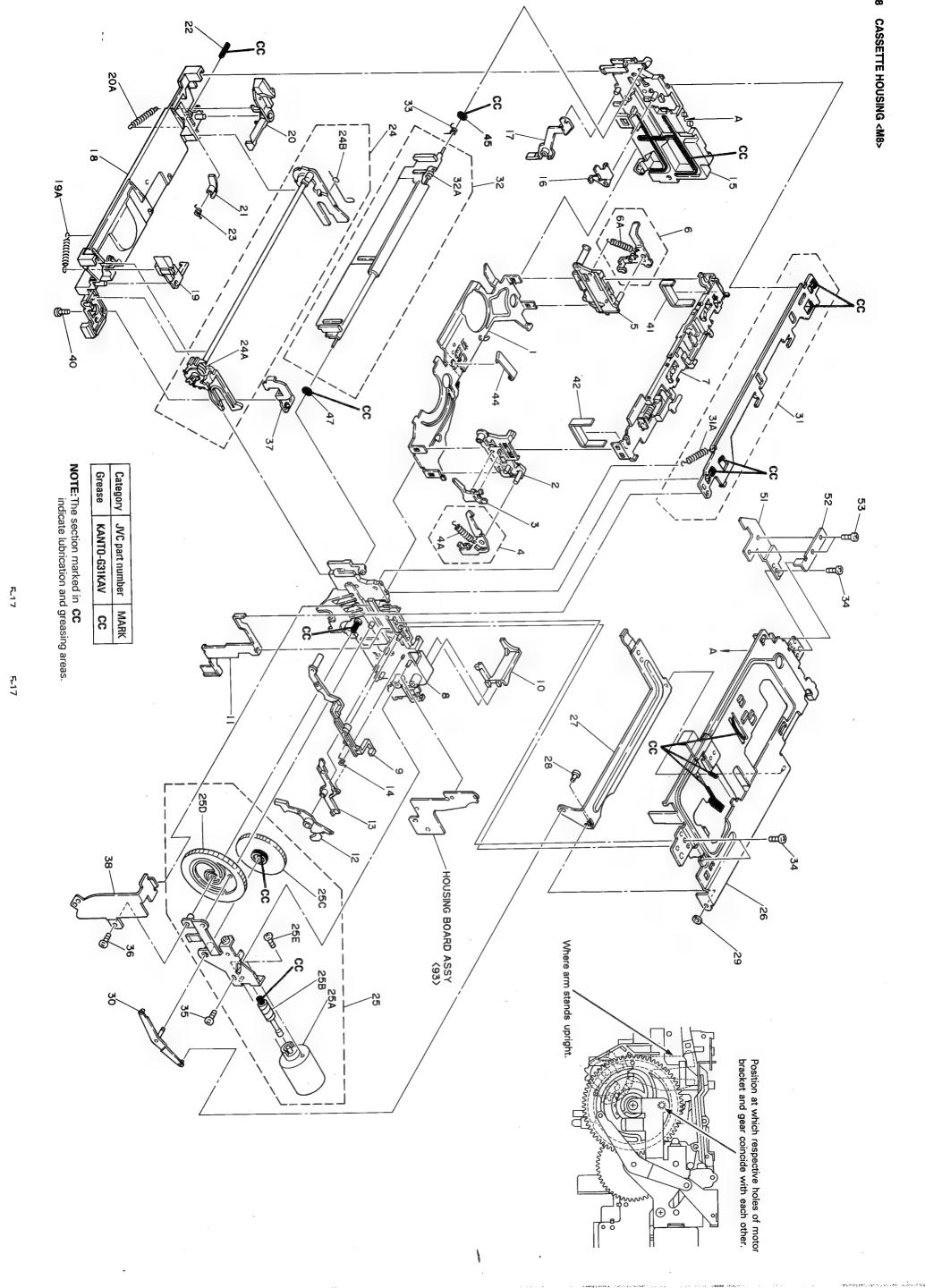
#∆ REF No.	PART No.	PART NAME, DESCRIPTION
41	PU61008	CASSETTE SWITCH
42	SDSP2605Z	SCREW
43	PRD43467-01-01	C.S.SW BASE
44	SDST2605Z	SCREW, X2
45	Q03093-825	WASHER
46	PU49485-4	WIRE CLAMP, X2
47	PU49485-4	WIRE CLAMP
51	Q03093-833	WASHER
59	PRD44006A	STOPPER ASSY

M7MM

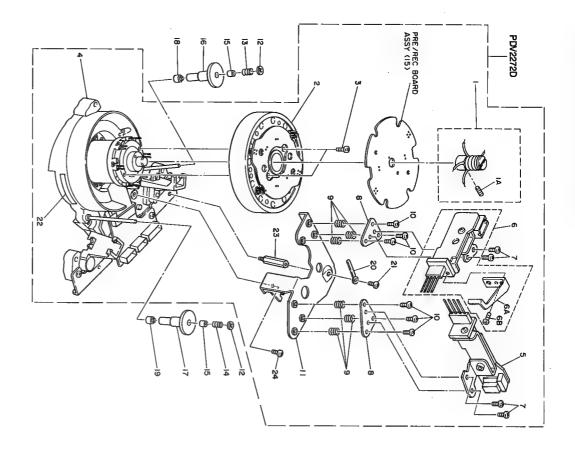
CASSETTE HOUSING ASSEMBLY M 3

#∆ REF No.	PART No.	PART NAME, DESCRIPTION	#A REF No.	PART No.	PART NAME, DESCRIPT	IIIMILLILLILLI TION
		******	41	PRD43776-01-01	TEPHRON SHEET	
ale ate ate ate ate at			42	PRD43776-01-01	TEPHRON SHEET	
C	ASSETTE HOL	JSING ASSEMBLY <m8></m8>	44	PRD30030-87	PAD	
•	AUULITETIO		45	Q03093-828	WASHER	
0	PGS20745B-18	CASSETTE HOUSING ASSY	46	PRD30030-71	PAD	
ū	1 40207 402 16	CAGGETTE HOOGING AGOT	47	Q03093-826	WASHER	
1	PQ34092A-03	CASSETTE HOLDER ASSY	48	PRD30030-72	PAD	
2	PQ11278-01-01	SIDE HOLDER(R)	. 40	111000000-72	ואט	
3	PQ45459	LID OPENER	51	PRD44177	C DOOR STOPPER	
4	PQ43596A-5	LOCK LEVER(R) ASSY	52	PRD44178	STOPPER	
4A	PQ43597-1-5	TENSION SPRING	53	SDSP2603Z	SCREW, X2	
5	PQ11279	SIDE HOLDER(L)				
6	PQ45539A-01	LOCK LEVER(L) ASSY				
6A	PQ43597-2	TENSION SPRING				
7	PQ21327A-09	HOLDER STAY ASSY				
8	PQ11281-01-06	HOUSING STAY(R)				
9	PQ34096	DOOR SENSOR				
10	PQ34097	LID GUIDE				
11	PQ45477	FC CHENGE LEVER				
12	PQ34098	SENSOR LEVER				
13	PQ34099	C INSERT LEVER				
14	PQ45478	TORSION SPRING				
15	PQ11282-01-07	HOUSING STAY(L)				
16	PQ45479-01-02	DOOR STOPPER				
17	PQ34100	DOOR OPENER				
18	PQ11283-01-03	FRONT BRACKET				- Andrews
19	PQ45480A-02	DOOR LOCK(R) ASSY		·		
19A	PQM30001-340	TENSION SPRING				
20	PQ45481A-03	DOOR LOCK(L) ASSY				
20A	PQM30001-340	TENSION SPRING				
21	PQ45482	C DOOR LOCK				
22	PQM30015-93	SHAFT				
23	PQ45483-01-01	TORSION SPRING				
24	PQ34103A-04	MAIN ARM ASSY				
24A	PRD43806	TORSION SPRING				
24B	PQ43605	TORSION SPRING				
25	PQ34107A-03	DRIVE UNIT ASSY				
25A	PQ45489A	MOTOR ASSY		•		
25B	PQ45474	WORM GEAR				
25C	PQ34109-01-01	CONNECT GEAR				
25D	PQ34110-01-01	IDLER CAM				
25E	SPSP3003Z	SCREW, X2				
26	PQ34111A-05	TOP FRAME ASSY				
27	PQ34112A-01	HOLD PLATE ASSY				
28	PQ45464	PIN				
29	PQM30017-25	SLITWASHER				
30	PQ45493A	HOLD LEVER ASSY			•	
31	PQ34128A-02	FC PLATE ASSY				
31A	PQM30001-341	TENSION SPRING				
32	PQ34114A-08	DOOR ASSY				
32A	PQ45496-01-02	TORSION SPRING				
33	PRD44021	TORSION SPRING				
34	SDSF2606Z	SCREW, X3				
35	SDSF2608Z	SCREW, X1				
36	SDSF2612Z	SCREW				
37	PRD43729	BASE BRACKET				
38	PRD43730	GEAR BRACKET				
40	SDSP2603Z	SCREW				

M8MM DDD



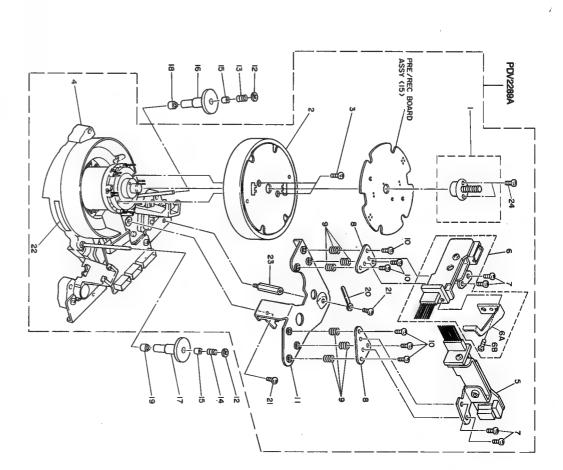
.1 Drum assembly (BR-S822U/S622U/S522U) <M9A>



ASSEMBLY (S822U/S622U/S522U) M9A

o. PART No.	PART NAME, DESCRIPTION	#∆ REF No.	PART No.	PART NAME, DESCRIPTION
*******		œ	PRD43978	M.PLATE, X2
		9	PRD30023-51	COMPRESSION SPRING, X6
M ASSEMBLY	M ASSEMBLY (S822U/S622U/S522U) <m9a></m9a>	10	BYS2606FS	S.BOLT, X6
PDV2272D	DRUM ASSY	=	PRD30921	BRUSH BASE
		12	PQM30017-25	SLIT WASHER, X2 NOT INCL
PGZ01630	SLIP RING ASSY	13	PRD30023-42	COMPRESSION SPRING(S), NOT INCL
PGZ01872	SLIP RING ASSY	14	PRD30023-43	COMP. SPRING(T), NOT INCL
YFS2603B	SET SCREW	15	PRD43675	COLLAR, X2 NOT INCL
PRD20380B-1	UPPER DRUM ASSY	16	PGZ01667	INERTIA ROLLER ASSY(S), NOT INCL
PRD20380D	UPPER DRUM ASSY	17	PGZ01667-02	INERTIA ROLLER ASSY(T), NOT INCL
PDM4264A	DRUM SCREW ASSY, X2	1 8	PRD43675-02	COLLAR(S), NOT INCL
PRD20382D-9	LOWER DRUM MOTOR ASSY	19	PRD43675-03-01	COLLAR(T), NOT INCL
PRD20382D-8	LOWER DRUM MOTOR ASSY	20	PU49485-3	WIRE CLAMP
PRD43986A	BRUSH ASSY(A)			
PRD43986B	BRUSH ASSY(B)	21	PRD30027-04	SCREW
PRD44176	BRUSH PROTECTOR	22	PDM4067	PART NO. LABEL
SPSP2006Z	SCREW	23	PRD43979	STUD
BYS2605FS	S.BOLT, X4	24	PRD30027-04	SPECIAL SCREW

5.9.2 Drum assembly (BR-S525U) <M9B>



DRUM ASSEMBLY (S525U) M9B

#∆ REF No.	PART No.	PART NAME, DESCRIPTION	#∆ REF No.	PART No.	PART NAME, DESCRIPTION
*** ***	******	*************	=	PRD30921-02	BRUSH BASE
			ಸ	PQM30017-25	SLIT WASHER, X2 NOT INCL
	DRUM ASSEM	DRUM ASSEMBLY (S525U) < M9B>	13	PRD30023-42	COMPRESSION SPRING(S) NOT INCL
			74	PRD30023-52	COMP SPRING (T) NOT INCL
№ 0	PDV2289A	DRUM ASSY	15	PRD43675	COLLAR, X2
			16	PGZ01667-04	INERTIA ROLLER ASSY(S)
-	PGZ01760-06	SLIP RING ASSY	17	PGZ01667-03	INERTIA ROLLER ASSY(T), NOT INCL
N	PRD20448A	UPPER DRUM ASSY	1 8	PRD43675-02	COLLAR (S) NOT INCL
ယ	PDM4264A	DRUM SCREW ASSY, X2	19	PRD43675-03-01	
4	PRD20382C-11	LOWER DRUM MOTOR ASSY	20	PU49485-3	₽
СЛ	PRD43938A	BRUSH SUB ASSY			
6	PRD43938B	BRUSH SUB AS(B)	22	PRD30027-04	SPECIAL SCREW, X2
6A	PRD44176	BRUSH PROTECTOR	83	PDM4067	PART NO. LABEL
6B	SPSP2006Z	SCREW	23	PRD43979	STUD
7	BYS2605FS	S.BOLT, X4	24	SPBK1711M	SCREW, X2
8	PRD43978	MOUNT PLATE, X2			
9	PRD30023-51	COMPRESSION SPRING, X6			
10	BYS2606FS	S.BOLT. XG			

SECTION 6 ELECTRICAL PARTS LIST

Notes:

- Parts identified by the <u>M</u> symbol critical for safety. Replace only with parts having the specified parts numbers.
- Since this section only the following boards which are different from those of original models.
 - MOTHER-1 board
 - MOTHER-2 board
 - AUDIO-3 board
 - AVM/ON SCREEN board

For other board assemblys, refer to the service manual No. 9246C for the BR-S822U/BR-S622U/BR-S522U, No. 9272 for the BR-S525U.

• In case Model Name(Example:S822U)indicate on the header or Part Name column of the P.C. board assembly lists, event the part or the P.C. board assembly is for exclusive use of the specified models.

Example 1:

R147 QRSA08J-332YN RESISTOR, S822U/S622U 3.3 k Ω , 1/10W In this case, the resistor (R147) is used in the BR-S822U, the BR-S622U only.

Example 2:

— AUDIO-6 BOARD ASS'Y, BR-S822U/BR-S622U —

PWBA PRK30066A1 AUDIO-6 BOARD ASS'Y

In the above case, the AUDIO-6 Board Ass'y is the circuit board assembly that exclusively used for the BR-S822U, the BR-S622U.

Parts without any remark are used in both the models in common.

#▲REF No. PART No. PART NAME, DESCRIPTION #AREF No. PART No. PART NAME, DESCRIPTION BR-S525U-- BR-S822U/BR-S622U/BR-S522U-MOTHER-1 BOARD ASSEMBLY <01> MOTHER-1 BOARD ASSEMBLY <01> MOTHER-1 BOARD ASSY, S822 / S622 **PWBA** PRK10149D MOTHER-1 BOARD ASSY **PWBA** PRK10113F-01 MOTHER-1 BOARD ASSY, S522 **PWBA** PRK10113B-02 CL1 **PEME0802** CLAMP. × 6 CL1 **PEME0802** CLAMP. ×7 CL2 PGZ01377-03 STYLE PIN, ×2 FEMALE CONNECTOR CN1 PGZ01783-44 CN₂ FEMALE CONNECTOR PGZ01783-44 FEMALE CONNECTOR CN1 PGZ01783-44 FEMALE CONNECTOR CN₃ PGZ01783-44 FEMALE CONNECTOR CN₄ PGZ01783-44 FEMALE CONNECTOR CN₂ PGZ01783-44 CONNECTOR FEMALE CONNECTOR CN₅ PGZ01783-44 CN₃ PGZ01783-44 CN₆ PGZ01783-44 CONNECTOR FEMALE CONNECTOR CN₄ PGZ01783-44 CN7 CONNECTOR CN7 PGZ01783-44 FEMALE CONNECTOR PGZ01783-44 CN8 CN8 PGZ01783-44 FEMALE CONNECTOR PGZ01783-44 CONNECTOR CN9 PU59513-8 CONNECTOR CN9 PU59513-8 CONNECTOR PU59513-2 CONNECTOR CN10 PU59513-2 CONNECTOR **CN10** CN11 PU59513-8 CONNECTOR **CN11** PU59513-8 CONNECTOR **CN12** PU59513-5 CONNECTOR **CN12** PU59513-5 CONNECTOR **CN13** PU59513-6 CONNECTOR **CN13** PU59513-6 CONNECTOR CONNECTOR **CN14** PU59513-7 CONNECTOR **CN14** PU59513-7 PU59513-4Y **CN15** CONNECTOR **CN15** PU59513-4Y CONNECTOR **CN17** PU59513-5 CONNECTOR **CN17** PU59513-5 CONNECTOR **CN18** PU59513-8 CONNECTOR **CN18** PU59513-8 CONNECTOR **CN19** PU59513-7 CONNECTOR **CN19** PU59513-7 CONNECTOR **CN20** PU59513-2 CONNECTOR **CN20** PU59513-2 CONNECTOR CONNECTOR **CN21** PU60329-120 CONNECTOR CN21 PU60329-120 CN22 PU60329-120 CONNECTOR **CN22** PU60329-120 CONNECTOR **CN23** PU59513-2R CONNECTOR **CN23** PU59513-2R CONNECTOR PU59513-6 CONNECTOR CN24 CONNECTOR **CN24** PU59513-6 **CN27** PU59513-4 CONNECTOR **CN25** PU59513-2Y CONNECTOR, S822/S622 CONNECTOR **CN28 CN26** PU59513-2R CONNECTOR, S822/S622 PU59513-2R **CN29 CN27** PU59513-4 CONNECTOR PU59513-2 CONNECTOR **CN28** PU59513-2R CONNECTOR **CN30** PU59513-4R CONNECTOR **CN29** PU59513-2 CONNECTOR **CN31** PU59513-2 CONNECTOR **CN30** PU59513-4R CONNECTOR CONNECTOR **CN32** PU59513-5 **CN31** PU59513-2 CONNECTOR **CN33** PU59513-2 CONNECTOR **CN32** PU59513-5 CONNECTOR **CN34** PU59513-2R CONNECTOR **CN33** PU59513-2 CONNECTOR **CN35** PU59513-5R CONNECTOR PU59513-2R CONNECTOR **CN37** PU59513-2R CONNECTOR **CN34 CN35** PU59513-5R CONNECTOR **CN38** PU59513-2 CONNECTOR CONNECTOR, S822/S622 **CN39** PU59513-2R CONNECTOR **CN36** PU59513-2 PU59513-2R **CN40** PU59513-2Y CONNECTOR **CN37** CONNECTOR **CN38** PU59513-2 CONNECTOR **CN41** PU59513-2 CONNECTOR **CN39** PU59513-2R CONNECTOR

CN42

CN43

CN44

CN45

CN80

PU59513-2

PU59513-3

PU59513-2

PU58844-2

PU59513-2

CONNECTOR

CONNECTOR

CONNECTOR

CONNECTOR

CONNECTOR

CN40

CN41

CN45

CN80

PU59513-2Y

PU59513-2

PU58844-2

PU59513-2

CONNECTOR

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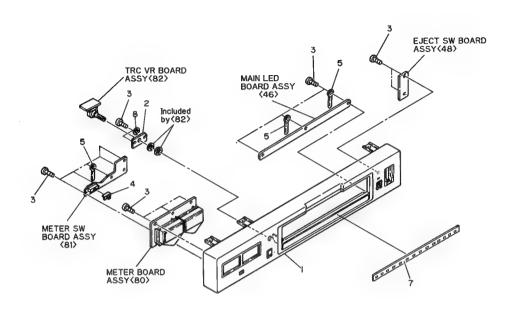
CONNECTOR

121 100	. PART No.	PART NAME, DESCRIPTION	#△REF No.	PART No.	PART NAME, DESCRIPTION
AOTU	ED A BOARD	ACCEMBLY COS	CN41	PU59513-2	CONNECTOR, S822/S622
MOTH	FK-5 RÓWKD N	ASSEMBLY <02>	CN42	PU59513-4Y	CONNECTOR
			CN44	PU59513-4Y	CONNECTOR
			CN45	PU59513-4Y	CONNECTOR
PWBA	PRK10111F-01	MOTHER-2 BOARD ASSY, S822 / S622	CN46	PU59513-4	CONNECTOR
		MOTHER-2 BOARD ASSY, \$522	CN47	PU59513-5	CONNECTOR
WBA	PRK10111B-02				
WBA	PRK10111D-02	MOTHER-2 BOARD ASSY, S525	CN48	PU59513-3	CONNECTOR
		:	CN49	PU59513-3R	CONNECTOR
			CN50	PU59513-8	CONNECTOR
1	QRD161J-151	RESISTOR 150Ω ,1/6W			
		* *	CN51	PU58844-5	CONNECTOR
			CN52	PU59513-6	CONNECTOR
L1	PEME0802	CLAMP, ×8	CN53	PU59513-4R	CONNECTOR
12	PGZ01377-03	STYLE PIN, ×3	CN54	PU59513-5R	CONNECTOR
			CN55	PU59513-5	CONNECTOR
			CN56	PU58844-4R	CONNECTOR
DC1	PRD42222	INSULATOR	CN57	PU58844-4Y	CONNECTOR
PC1			CN58	PU58844-3	CONNECTOR
PC2	PRD30030-59	PAD			
			CN59	PU58844-4	CONNECTOR
		,	CN60	PU58844-2	CONNECTOR
'R1	PGW0205-050200	FLAT WIRE, NOT INCLUDED			· · · · · · · · · · · · · · · · · · ·
'R2	PGW0201-050201	PARALLEL WIRE, NOT INCLUDED	CN61	PU58844-4	CONNECTOR
			CN62	PU58844-4R	CONNECTOR
			CN63	PU58844-6	CONNECTOR
1	PGZ01783-64	FEMALE CONNECTOR	CN64	PEMC0769-004	CONNECTOR
	PGZ01783-64	FEMALE CONNECTOR	CN65	PEMC0769-002	CONNECTOR
V2		FEMALE CONNECTOR	CN66	PU59513-2R	CONNECTOR, S822/S622
N3	1 020170001		CN67	PU59513-2	CONNECTOR, S822/S622
V4	PGZ01783-64	FEMALE CONNECTOR			
N5	PGZ01783-64	FEMALE CONNECTOR	CN68	PU59513-4R	CONNECTOR
N6	PGZ01783-64	FEMALE CONNECTOR	CN69	PU59513-2	CONNECTOR, S822/S622
N7	PGZ01783-64	FEMALE CONNECTOR	CN70	PU59513-6	CONNECTOR
N8	PGZ01783-64	FEMALE CONNECTOR			
N9	PGZ01783-64	FEMALE CONNECTOR	CN71	PU59513-5	CONNECTOR
N10	PGZ01783-64	FEMALE CONNECTOR	CN72	PU59513-7	CONNECTOR
			CN73	PU59513-2	CONNECTOR
111	PU60329-120	CONNECTOR	CN74	PU60251-4	CONNECTOR
112	PU59513-2	CONNECTOR	CN75	PU59513-4	CONNECTOR, S522/S525
	PU60329-120	CONNECTOR	CN76	PU59513-2Y	CONNECTOR
N13		CONNECTOR S822/S622	CN77	PU59513-2	CONNECTOR
N14	PU59513-2Y				CONNECTOR, S525
N15	PU59513-7	CONNECTOR	CN78	PU58844-7	
N16	PU59513-4	CONNECTOR	CN79	PU59513-2	CONNECTOR, S525
N17	PU58844-6	CONNECTOR	CN80	PU59513-2	CONNECTOR, S522/S525
N18	PU59513-3	CONNECTOR			
N19	PU59513-2	CONNECTOR			·
N20	PU58844-10	CONNECTOR			
CN21	PU59513-8	CONNECTOR	AUDIO	0 DO 4 DD 4	OOFMEN V COON
CN22	PU59513-2	CONNECTOR	AUDIO	-3 ROYKD Y	SSEMBLY <23>
		CONNECTOR			
N23	PU58844-9				
N24	PU59513-2	CONNECTOR, S822/S622	DIÈIDA	DDICAGAEA	ALIDIO 2 BOADD ACCV C022 /CC22
N26	PU59513-2Y	CONNECTOR, S822/S622	PWBA	PRK10115A	AUDIO-3 BOARD ASSY, \$822 / \$622
N27	PU59513-5	CONNECTOR	PWBA	PRK10115C	AUDIO-3 BOARD ASSY, S522/S525
128	PU59513-4	CONNECTOR, S822/S622			
129	PU59513-4	CONNECTOR			
N30	PU59513-6	CONNECTOR	IC1	JCP0038	IC
			IC2	M5278D12	IC
N31	PU59513-4	CONNECTOR	IC3	M5278D05	ic
			IC4	M5278D05	IC, S822/S622
N32	PU59513-4R	CONNECTOR CONNECTOR	1		
N33	PU59513-4R	CONNECTOR, S822/S622	IC5	M5278D09	IC, S822/S622
N34	PU59513-4Y	CONNECTOR	IC6	BA7743FS	IC .
CN36	PU59513-7	CONNECTOR	IC7	AN6041	IC, S822/S622
	PU59513-5R	CONNECTOR	IC8	M5278L05	IC
CN37	1 000010-011	00/1/120/0/1	IC9	TL082CP	IC, S822/S622

#∆REF No.	. PART No.	PART NAME, DES	CRIPTION	#∆REF No.	PART No.	PART NAME,	DESCRIPTION
Q1	2SC2412K	TRANSISTOR		R44	QRSA08J-303YN	RESISTOR	30kΩ,1∕10W
Q4	2SC2412K-	TRANSISTOR, S822/	S622	R45	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
Q5	2SA1037K	TRANSISTOR, S822/		R47	QRSA08J-103YN	RESISTOR	10kΩ,1/10W
Q8	DTC124EK	TRANSISTOR		R48	QRSA08J-473YN	RESISTOR	47kΩ,1/10W
Qb	DICIZALN	INAMOISTOR		R49	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
011	2SK30A-O	FE TRANSISTOR, S82	2 / 5622	R50	QRSA08J-102YN	RESISTOR	1kΩ,1/10W
Q11	2SK30A-O 2SK30A-O	FE TRANSISTOR, S82		1130	Q110/1003*102 111	TLOID TOTT	1835,17 1044
Q12 Q13	DTC124EK	TRANSISTOR, S822/		R51	QRSA08J-682YN	RESISTOR S822	/S622 6.8kΩ ,1 / 10W
QIS	DICIZAEN	1 NANSISTON, 3022/	3022	R52	QRSA08J-682YN	RESISTOR	6.8kΩ ,1 / 10W
				R53	QRSA08J-392YN	RESISTOR	3.9kΩ ,1 ∕ 10W
54	400400	DIODE				RESISTOR	
D1	1SS133	DIODE COM COMM		R54	QRSA08J-472YN		4.7kΩ ,1 / 10W
D2	1SS133	DIODE, \$822 / \$622		R55	QVZ3513-153	V RESISTOR	15kΩ
D3	1SS136	DIODE, \$822/\$622		R58	QRSA08J-102YN		/S622 1kΩ,1/10W
D4	1SS136	DIODE, \$822/\$622		R59	QRSA08J-122YN	RESISTOR	1.2kΩ ,1 ∕ 10W
D5	1SS133	DIODE		R60	QRSA08J-122YN	RESISTOR	1.2kΩ ,1∕10W
			40104 (4014	R61	QRSA08J-152YN	RESISTOR	1.5kΩ,1/10W
R1	QRSA08J-432YN	RESISTOR, S822/S622		R62	ORSA08J-152YN	RESISTOR	1.5kΩ,1/10W
R1	QRSA08J-103YN	RESISTOR, S522/S525		R63	QRSA08J-8R2YN		/S622 8.2Ω,1/10W
R2	QRSA08J-432YN	RESISTOR, S822/S622		R64	QRSA08J-224YN		/S622220kΩ,1/10W
R2 R3	QRSA08J-103YN QRSA08J-332YN	RESISTOR, \$522/\$525 RESISTOR, \$822/\$622		R67	QRSA08J-102YN	RESISTOR, S822	/S622 1kΩ,1/10W
R3	QRSA08J-103YN	RESISTOR, S522/S525		R75	QRSA08J-912YN	RESISTOR S822	/S622 9.1kΩ,1/10W
R4	QRSA08J-332YN	RESISTOR, \$822/\$622		R76	QRSA08J-332YN	· ·	/S622 3.3kΩ,1/10W
	QRSA08J-103YN	RESISTOR, \$522/\$525		R77	QRSA08J-123YN		S622 12kΩ,1/10W
R4				R78	QRSA08J-332YN		S622 3.3kΩ,1/10W
R5	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W				$\sqrt{S525}$ 0Ω , $1/10W$
R7	NRVA62D-511N	RESISTOR	510Ω,1/16W	R78	QRSA08J-0R0Y		
R8	NRVA62D-511N	RESISTOR	510Ω,1/16W	R79	QRSA08J-333YN		/S622 33kΩ,1/10W
R9 R10	QRSA08J-472YN QRSA08J-472YN	RESISTOR RESISTOR	4.7kΩ,1/10W 4.7kΩ,1/10W	R80	QRSA08J-123YN	RESISTOR, 8022/	/S622 12kΩ,1/10W
			1	R81	QRSA08J-102YN		/S622 1kΩ,1/10W
R11	QRSA08J-513YN	RESISTOR	51kΩ,1/10W	R82	QRSA08J-102YN	RESISTOR, S822,	/S622 1kΩ,1/10W
R12	QRSA08J-513YN	RESISTOR	51kΩ,1/10W	R83	QRSA08J-561YN	RESISTOR, S822/	/S622 560Ω,1/10W
R13	QRSA08J-562YN	RESISTOR	5.6kΩ,1/10W	R84	QRSA08J-102YN	RESISTOR, S822	∕S622 1kΩ,1∕10W
R14	QRSA08J-472YN	RESISTOR	4.7kΩ,1/10W	R85	QRSA08J-122YN	RESISTOR	1.2kΩ ,1 / 10W
R15	QVZ3513-473	V RESISTOR	47kΩ	R86	QRSA08J-0R0Y	RESISTOR	0Ω,1/10W
R16	QVZ3513-473	V RESISTOR	47kΩ	R87	QRSA08J-684YN		/S622680kΩ,1/10W
R17	QRSA08J-101YN	RESISTOR	100Ω,1/10W	R88	QRSA08J-684YN		/S622680kΩ,1/10W
R18	QRSA08J-101YN	RESISTOR	100Ω,1/10W	R89	QRSA08J-684YN		/S622680kΩ,1/10W
NIO.				R90	QRSA08J-684YN		/S622 680kΩ ,1 / 10W
R21	QRSA08J-101YN	RESISTOR	100Ω,1/10W				
R22	QRSA08J-101YN	RESISTOR	100Ω,1∕10W	R91	QRSA08J-683YN	•	/S622 68kΩ,1/10W
R23	QRSA08J-822YN	RESISTOR	8.2kΩ,1∕10W	R92	QRSA08J-683YN	RESISTOR, S822/	∕S622 68kΩ,1/10W
R24	QRSA08J-822YN	RESISTOR	8.2kΩ,1∕10W				
R25	QRSA08J-103YN	RESISTOR	10kΩ,1∕10W				
R26	QRSA08J-103YN	RESISTOR	10kΩ,1∕10W	C1	QETC1CM-106ZE	E CAPACITOR,	S822/S622 10 μ F,16V
R27	QRSA08J-123YN	RESISTOR	12kΩ,1∕10W	C2	QETC1CM-106ZE	E CAPACITOR,	S822/S622 10 μ F,16V
R28	QRSA08J-103YN	RESISTOR	10kΩ,1/10W	C3	QETC1CM-106ZE	E CAPACITOR	10 μ F,16V
R29	QVZ3513-103	V RESISTOR	10kΩ	C4	QETC1CM-106ZE	E CAPACITOR	10 μ F,16V
R30	QVZ3513-682	V RESISTOR	6.8kΩ	C5	QCYA1HK-103	CAPACITOR	$0.01\mu\text{F,50V}$
1100	4720010 002	* *************************************	VICKAL	C6	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
R33	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	C7	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
	QRSA08J-222YN	RESISTOR	2.2kΩ,1/10W	C8	QCYA1HK-103	CAPACITOR	0.01 μ F,50V
R34		RESISTOR	2.2kΩ,1/10W 27kΩ,1/10W	Co C9	QETC1AM-336ZE	E CAPACITOR	33 μ F,10V
R35	QRSA08J-273YN			C9 C10			33 μ F,10 V 33 μ F,10 V
R36	QRSA08J-273YN	RESISTOR	27kΩ,1/10W	Ciu	QETC1 AM-336ZE	E CAPACITOR	33 μ Γ,10 V
R37	QRSA08J-561YN	RESISTOR	560Ω,1/10W	C14	OEN24111470	M CARACITOR	0.047 5 50\/
R38	QRSA08J-750YN	RESISTOR	75Ω,1/10W	C11	QFN31HJ-473	M CAPACITOR	0.047 μ F,50V
R39	QRSA08J-274YN	RESISTOR, S822/S622		C12	QFN31HJ-473	M CAPACITOR	0.047 μ F,50V
R40	QRSA08J-104YN	RESISTOR	100kΩ,1∕10W	C13	QETC1HM-225	E CAPACITOR	2.2 μ F,50V
				C14	QETC1 HM-225	E CAPACITOR	2.2 μ F,50V
R41	QRSA08J-822YN	RESISTOR	8.2kΩ,1∕10W	C15	QFN31HJ-333	M CAPACITOR	$0.033 \mu\text{F,50V}$
R42	QRSA08J-183YN	RESISTOR	18kΩ,1∕10W	C16	QFN31HJ-333	M CAPACITOR	0.033 μ F,50V
R43	QRSA08J-332YN	RESISTOR	3.3kΩ,1∕10W	C17	PU59499	BUS WIRE, S822	/S622
			'	•			

5.10 FRONT PANEL assembly

5.10.1 Cassette panel assembly <MA>



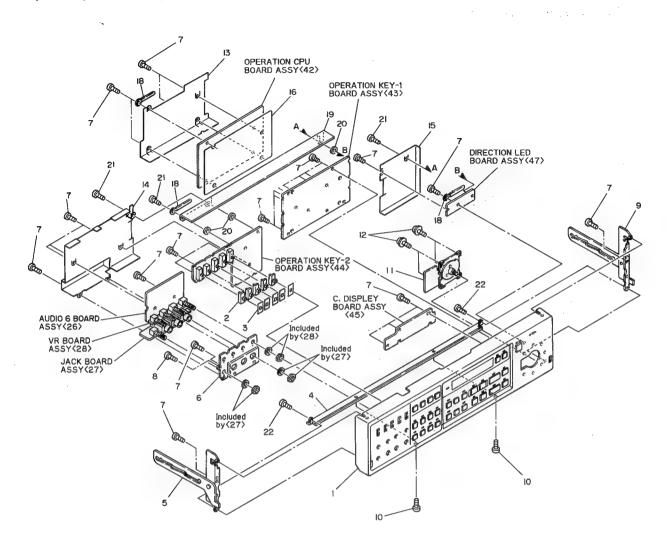
CASSETTE PANEL ASSEMBLY MA

		MAMMUUU
#▲ REF No.	PART No.	PART NAME, DESCRIPTION
****	****	******************************

CASSETTE PANEL ASSEMBLY < MA>

1	PRD10229B-02	CASSETTE PANEL ASSY, S822U
1	PRD10229D-02	CASSETTE PANEL ASSY, S622U
1	PRD10229F-02	CASSETTE PANEL ASSY, S522U
1	PRD10229J-02	CASSETTE PANEL ASSY, S525U
2	PRD43427	VR BRACKET
3	SBSF2606Z	SCREW, X15
4	PRD42927A	SLIDE KNOB ASSY
5	PU49485-4	WIRE CLAMP, X3
7	PRD30726	WINDOW, S822U/S622U
7	PRD30726-02	WINDOW, \$522U/\$525U
8	WNB2600N	WASHER

5.10.2 Operation panel assembly <MB>



OPERATION PANEL ASSEMBLY MB

#▲ REF No.	PART No.	PART NAME, DESCRIPTION
****	******	*****

OPERATION PANEL ASSEMBLY < MB>

	OPERATION PA	HEL ASSEMBLI (MD)
1	PRD10230A-05	OPERATION PANEL ASSY, S822U
1	PRD10259A-06	OPERATION PANEL ASSY, S622U
1	PRD10259E-06	OPERATION PANEL ASSY, S522U
1	PRD10259F-06	OPERATION PANEL ASSY, S525U
2	PRD42830	SLIDE KNOB, X5, S822U/S622U
2	PRD42830	SLIDE KNOB, X4, S522U/S525U
3	PRD43146	KNOB PLATE, X5, S822U/S622U
3	PRD43146	KNOB PLATE, X4, S522U/S525U
4	PRD20379	OPERATION BRACKET
5	PRD30732A-01	SIDE BRACKET(L) ASSY
6	PRD43428	VR & JACK BRACKET
7	SBSF2606Z	SCREW, X28
8	LPSP3006Z	ASSY SCREW
9	PRD30733A-01	SIDE BRACKET(R) ASSY
10	PRD43194	SPECIAL SCREW, X2

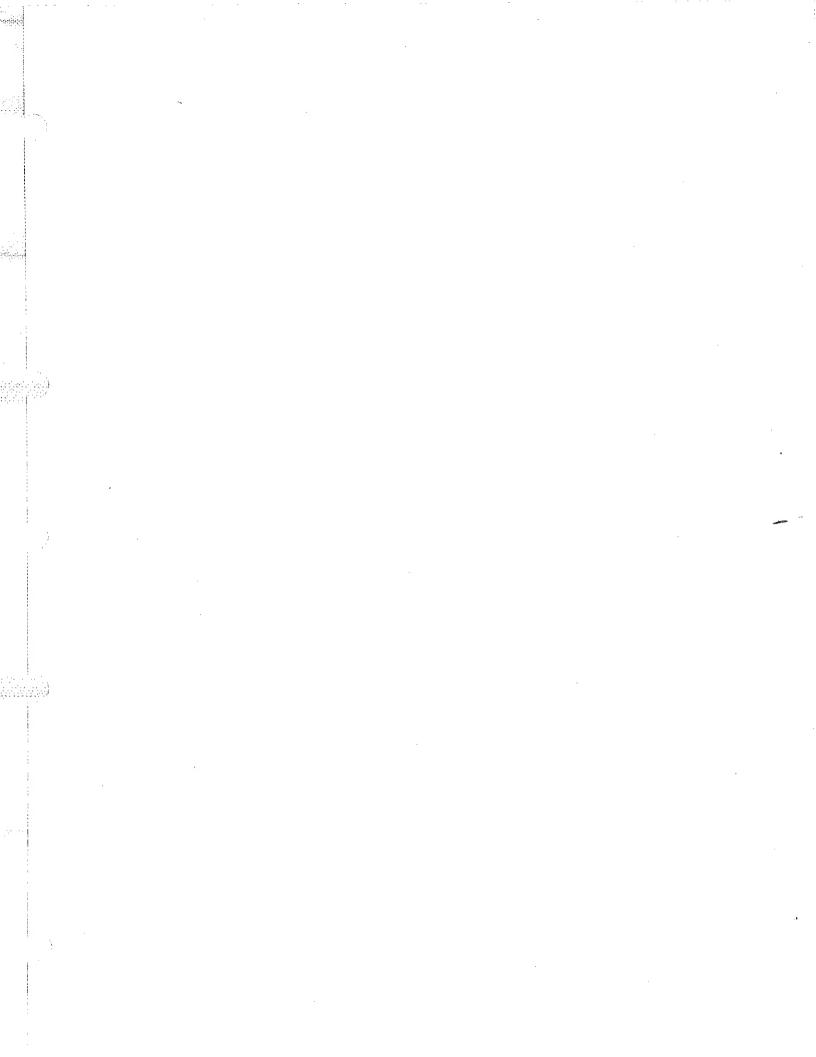
#∆ REF No.	PART No.	MBMM — — — PART NAME, DESCRIPTION
WALLE NO.		TATT NAME, DECOTOR TOOK
11	PGS20128H-02	SEARCH/JOG CONTROL ASSY, 822U/622U/522U
11	PGS20933A	SEARCH/JOG CONTROL ASSY, S525U
12	DPSP3010Z	SCREW, X4, S822U/S622U/S522U
12	DPSP3016Z	SCREW, X4, S525U
13	PRD30774-01-01	PROTECTOR(A)
14	PRD30775-01-02	PROTECTOR(B), S822U/S622U
14	PRD30775-02-03	PROTECTOR(B), S522U/S525U
15	PRD43477-01-01	PROTECTOR(C)
16	PRD43478	INSULATOR
18	PU49485-4	WIRE CLAMP, X3
19	PRD30850	OPERATION BRACKET
20	PRD30084	WASHER, X3
21	SDSF2610Z	SCREW, X3
22	SDSF2608Z	SCREW, X2

# <u></u> REI	F No.	PART No.	PART NAME, DES	CRIPTION	#∆REF	No. PART No.	PART NAME, DESCRIPTION	ON
C17		QETC1 AM-227ZE	E CAPACITOR, \$522/	\$525 220 μ F,10V	C74	QEE81AM-107	E CAPACITOR, S822/S622100 μ	
C18		PU59499	BUS WIRE, S822/S62		C75	QETC1 HM-105ZE		F,50V
· C18		QETC1 AM-227ZE	E CAPACITOR, \$522/		C76	QETC1 HM-105ZE	· ·	F,50V
C19		QETC1 CM-106ZE	E CAPACITOR	10 μ F,16V	C77	QCYA1HK-102	CAPACITOR 0.001 μ	
C20		QETC1 CM-106ZE	E CAPACITOR	10 μ F,16V	C78	QCYA1HK-102	CAPACITOR 0.001 μ	
				•	C79	QCTA1CH-121		F,16V
C21		QCYA1HK-103	CAPACITOR	0.01 μ F,50V	C80	QCTA1CH-121	CAPACITOR 120p	F,16V
C22		QCYA1HK-103	CAPACITOR	$0.01 \mu\text{F,}50\text{V}$				
C23		QETC1 HM-105ZE	E CAPACITOR	$1 \mu F,50V$	C81	QCTA1CH-101		F,16V
C24		QETC1HM-105ZE	E CAPACITOR	1μ F,50V	C82	QFN31HJ-104	M CAPACITOR, $822/86220.1\mu$	
C25		QFN31HJ-103	M CAPACITOR	$0.01 \mu\text{F,50V}$	C85	QCYA1HK-103	CAPACITOR 0.01 μ	
C26		QFN31HJ-103	M CAPACITOR	$0.01 \mu F,50V$	C86	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ	
C27		QETC0JM-107ZE	E CAPACITOR	100 μ F,6.3V	C87	QEE81CM-476	T. CAPACITOR, S822/S622 47 μ	
C28		QETC0JM-107ZE	E CAPACITOR	100 μ F,6.3V	C88	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ	F,50V
C29		QCYA1HK-102	CAPACITOR	$0.001 \mu\text{F,50V}$				
C30		QCYA1HK-102	CAPACITOR	0.001 μ F,50V	C91	QETC1 EM-476ZE	E CAPACITOR, \$822/\$622 47 μ	
					C95	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ	
C31		QFN31HJ-822	M CAPACITOR	0.0082 μ F,50V	C96	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ	
C32		QFN31HJ-822	M CAPACITOR	$0.0082\mu\text{F,50V}$	C97	QCYA1HK-222	CAPACITOR, \$822 / \$622 0.0022 \(\mu \)	
C33		QFN31HJ-104	M CAPACITOR	0.1 μ F,50V	C98	QCYA1HK-222	CAPACITOR, \$822 / \$622 0.0022 \(\mu \)	
C34		QFN31HJ-104	M CAPACITOR	0.1 μ F,50V	C99	QCYA1HK-222	CAPACITOR, \$822 / \$622 0.0022 µ	
C35	ı	QFN31HJ-223	M CAPACITOR	$0.022 \mu\text{F,}50\text{V}$	C100	QCYA1HK-222	CAPACITOR, \$22 / \$622 0.0022 \(\mu \)	F,50V
C36		QFN31HJ-223	M CAPACITOR	$0.022 \mu\text{F,}50\text{V}$				
C37		QCTA1CH-821	CAPACITOR	820pF,16V	C101	QETC1CM-476	E CAPACITOR, S822/S622 47 μ	
C38		QCTA1CH-821	CAPACITOR	820pF,16V	C102	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ	
C39	1	QFN31HJ-392	M CAPACITOR	0.0039 µ F,50V	C103	QCTA1CH-121	CAPACITOR, S822/S622 120g	
C40		QFN31HJ-392	M CAPACITOR	0.0039 μ F,50V	C104	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ	
			•		C105	QCYA1HK-103	CAPACITOR, S822/S622 0.01 μ	
C41		QCYA1HK-103	CAPACITOR	$0.01 \mu\text{F,}50\text{V}$	C106	QETC1CM-476ZE	E CAPACITOR, S822/S622 47 μ	
C42	!	QCYA1HK-103	CAPACITOR	$0.01 \mu\text{F,}50\text{V}$	C108	QCYA1HK-333	CAPACITOR 0.033 μ	
C43	ļ	QCYA1HK-103	CAPACITOR	$0.01 \mu\text{F,}50\text{V}$	C109	QCTA1CH-101		oF,16V
C44		QCYA1HK-103	CAPACITOR	$0.01 \mu\text{F,50V}$	C110	QETC1CM-476ZE	E CAPACITOR, S822/S622 47 μ	F,16V
C45		QCYA1HK-103	CAPACITOR	$0.01 \mu F,50V$				
C46	j	QETC1HM-105ZE	E CAPACITOR	$1 \mu F,50V$	C111	QFN31HJ-104	M CAPACITOR, $\$822 / \$622 \ 0.1 \mu$	
C47	'	QCTA1CH-471	CAPACITOR	470pF,16V	C112	QFN31HJ-104	M CAPACITOR, $\$822 / \$622 \ 0.1 \mu$	
C48		QCTA1CH-561	CAPACITOR	560pF,16V	C113	QCYA1HK-103		F,50V
C49)	QCYA1EK-104	CAPACITOR	$0.1 \mu\text{F,}25\text{V}$	C114	QCYA1HK-103	CAPACITOR 0.01 μ	F,50V
C50)	QEE81 AM-476	TANTAL CAPACITOR	4 7 μ F,10V				
C51		QCTA1CH-101	CAPACITOR	100pF,16V	L1	PU30284-1R	COIL 1	00 μ H
C52		QCTA1CH-101	CAPACITOR	100pF,16V	L2	PU30284-1R		00 μ H
C53		QCYA1HK-103	CAPACITOR	0.01 μ F,50V	L6	PU48530-101K	COIL 1	00 μ H
C54		QCYA1EK-473	CAPACITOR	0.047 μ F,25V	L7	PU48530-101K	COIL, S822 / S622 1	00 μ H
C55		QETC0JM-107ZE	E CAPACITOR	100 μ F,6.3V				
C56		QETC0JM-107ZE	E CAPACITOR	100 μ F,6.3V				
C57		QETC1AM-107ZE	E CAPACITOR	100 μ F,10V	BPF3	PU60396	BAND PASS FILTER, ×2 (BP	F3,4)
C58		QETC1 AM-476	E CAPACITOR	47 μ F,10V				
C59		QETC1EM-337ZE	E CAPACITOR	330 μ F,25V				
C60		QCYA1HK-103	CAPACITOR	0.01 μ F,50V	∆ K1	PGZ00354	FERRATE BEADS, ×2 (K1, K	(2)
C61		QETC1EM-107ZE	E CAPACITOR	100 μ F,25V				
C62		QCYA1HK-103	CAPACITOR	$0.01\mu\text{F,}50\text{V}$	EJ1	PGZ00582	EJECTOR, × 2	
C63		QEE81 AM-476	TANTAL CAPACITOR		STK1	PRD30072-58	STICKER	
C64		QCYA1HK-103	CAPACITOR	0.01 μ F,50V				
C65		QCYA1HK-102	CAPACITOR	$0.001 \mu\text{F,50V}$				
C67		QCYA1HK-103	CAPACITOR	$0.01 \mu\text{F,}50\text{V}$	TP1	PU54983	TEST PIN, ×16	
C68		QCYA1HK-103	CAPACITOR	$0.01 \mu\text{F,}50\text{V}$				
C69		QCYA1HK-103	CAPACITOR	$0.01 \mu\text{F,}50\text{V}$				
C70)	QEE81 AM-107	E CAPACITOR	100 μ F,10V	CN1 CN2	PGZ00421-64 PU58844-6	MALE CONNECTOR CONNECTOR	
C71		QCYA1HK-103	CAPACITOR	0.01 μ F,50V				
C72		QCYA1HK-103	CAPACITOR	0.01 μ F,50V				
. C73		QCYA1HK-103	CAPACITOR, S822/S6					

PWBA PF IC2 TC IC3 N. IC4 M IC5 M IC6 N. IC7 M IC6 N. IC7 M IC10 TC IC11 TC IC12 M IC12 M IC13 UF IC13 UF IC14 M IC15 M IC15 M IC15 M IC16 IC17 TC IC18 M IC19 UF IC11 IC12 IC12 IC12 IC12 IC13 IC12 IC13 IC14 IC15 IC12 IC13 IC14 IC15 IC12 IC14 IC15 IC12 IC15 IC17 IC18 IC19 IC17 IC18 IC19 IC11 IC12 IC11 IC12 IC11 IC12 IC11 IC12 IC11 IC12 IC11 IC12 IC12 IC13 IC13 IC13 IC14 IC15 IC15 IC17 IC18 IC17 IC18 IC17 IC18 IC18 IC19 IC18 IC1	PRK20089E TC74HC4066AP NJM2233BD M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP TC4013BP M51957BL JPD75116CW-A03 M54519P TC74HC00AP M5278D12 M5278D12 M5278D12 M5278D05 JPC78N05	AV M/ONSC BOARD ASSY IC	R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	CMF RESISTOR CMF RESISTOR CMF RESISTOR	33kΩ,1/6W 12kΩ,1/6W 180Ω,1/6W 560Ω,1/4W 330Ω,1/4W 470Ω,1/4W 1.8kΩ,1/6W 560Ω,1/6W 560Ω,1/6W 560Ω,1/6W 3.3kΩ,1/6W
PWBA PF IC2 TC IC3 N. IC4 M IC5 M IC6 N. IC7 M IC6 N. IC7 M IC10 TC IC11 TC IC12 M IC12 M IC13 UF IC13 UF IC14 M IC15 M IC15 M IC15 M IC16 IC17 TC IC18 M IC19 UF IC11 IC12 IC12 IC12 IC12 IC13 IC12 IC13 IC14 IC15 IC12 IC13 IC14 IC15 IC12 IC14 IC15 IC12 IC15 IC17 IC18 IC19 IC17 IC18 IC19 IC11 IC12 IC11 IC12 IC11 IC12 IC11 IC12 IC11 IC12 IC11 IC12 IC12 IC13 IC13 IC13 IC14 IC15 IC15 IC17 IC18 IC17 IC18 IC17 IC18 IC18 IC19 IC18 IC1	PRK20089E TC74HC4066AP NJM2233BD M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP TC4013BP M51957BL JPD75116CW-A03 M54519P M54519P TC74HC00AP M5278D12 M5278D12 M5278D15 JPC78N05	AV M/ONSC BOARD ASSY IC	R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-181 QRV141F-5600AY QRV141F-3300AY QRV141F-3300AY QRV141F-3700AY QRD161J-182 QRD161J-182 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-102 QRD161J-102 QRD161J-103	RESISTOR CMF RESISTOR CMF RESISTOR CMF RESISTOR CMF RESISTOR	180Ω , $1/6W$ 560Ω , $1/4W$ 330Ω , $1/4W$ 330Ω , $1/4W$ 470Ω , $1/6W$ $1.8k\Omega$, $1/6W$ $2.2k\Omega$, $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ $3.3k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ 3.90Ω , $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$
C2 TC C3 N. C4 M C5 M C6 N. C6 N. C7 M C9 UF C10 TC C11 TC C12 M C13 UF C14 M C15 M C19 M C15 M C19 C14 M C15 M C19 C14 M C15 M C19 C14 M C15 C17 TC C18 M C19 C10 TC C18 M C19 M C10 TC C11 TC C18 M C19 M C10 TC C11 TC C11 TC C12 M C12 TC C13 UF C12 TC C13 UF C14 TC C15 M C19 M C15 TC C18 M C19 M C19 TC C11 TC C18 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C11 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C19 TC C19 TC C10 TC C10 TC C10 TC C10 TC C11 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C10 TC C10 TC C10 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C10 TC C11 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C12 TC C12 TC C13 TC C14 TC C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C11 TC C11 TC C12 TC C11 TC C12 TC	TC74HC4066AP NJM2233BD M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP M51957BL JPD75116CW-A03 M54519P M54519P M54519P M5278D12 M5278D12 M5278D05 JPC78N05	IC I	R5 R6 R7 R8 R9 R10 R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRV141F-5600AY QRV141F-3300AY QRV141F-3300AY QRV141F-4700AY QRD161J-182 QRD161J-152 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-472 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103	CMF RESISTOR CMF RESISTOR CMF RESISTOR CMF RESISTOR	560Ω , $1/4W$ 330Ω , $1/4W$ 330Ω , $1/4W$ 470Ω , $1/6W$ $1.8k\Omega$, $1/6W$ $2.2k\Omega$, $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ $3.3k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$ $1/6W$
C2 TC C3 N. C4 M C5 M C6 N. C6 N. C7 M C9 UF C10 TC C11 TC C12 M C13 UF C14 M C15 M C19 M C15 M C19 C14 M C15 M C19 C14 M C15 M C19 C14 M C15 C17 TC C18 M C19 C10 TC C18 M C19 M C10 TC C11 TC C18 M C19 M C10 TC C11 TC C11 TC C12 M C12 TC C13 UF C12 TC C13 UF C14 TC C15 M C19 M C15 TC C18 M C19 M C19 TC C11 TC C18 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C11 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C19 TC C19 TC C10 TC C10 TC C10 TC C10 TC C11 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C10 TC C10 TC C10 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C10 TC C11 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C12 TC C12 TC C13 TC C14 TC C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C11 TC C11 TC C12 TC C11 TC C12 TC	TC74HC4066AP NJM2233BD M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP M51957BL JPD75116CW-A03 M54519P M54519P M54519P M5278D12 M5278D12 M5278D05 JPC78N05	IC I	R6 R7 R8 R9 R10 R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRV141F-3300AY QRV141F-3300AY QRV141F-4700AY QRD161J-182 QRD161J-152 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-472 QRD161J-102 QRD161J-102 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103	CMF RESISTOR CMF RESISTOR CMF RESISTOR	330Ω , $1/4W$ 330Ω , $1/4W$ 470Ω , $1/4W$ $1.8k\Omega$, $1/6W$ $2.2k\Omega$, $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$
C2 TC C3 N. C4 M C5 M C6 N. C6 N. C7 M C9 UF C10 TC C11 TC C12 M C13 UF C14 M C15 M C19 M C15 M C19 C14 M C15 M C19 C14 M C15 M C19 C14 M C15 C17 TC C18 M C19 C10 TC C18 M C19 M C10 TC C11 TC C18 M C19 M C10 TC C11 TC C11 TC C12 M C12 TC C13 UF C12 TC C13 UF C14 TC C15 M C19 M C15 TC C18 M C19 M C19 TC C11 TC C18 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C11 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C19 TC C19 TC C10 TC C10 TC C10 TC C10 TC C11 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C10 TC C10 TC C10 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C10 TC C11 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C12 TC C12 TC C13 TC C14 TC C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C11 TC C11 TC C12 TC C11 TC C12 TC	TC74HC4066 AP NJM2233BD M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP M51957BL JPD75116CW-A03 M54519P M54519P M54519P M5278D12 M5278D12 M5278D05 JPC78N05	IC I	R7 R8 R9 R10 R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRV141F-3300AY QRV141F-4700AY QRV141F-4700AY QRD161J-182 QRD161J-152 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-472 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103	CMF RESISTOR CMF RESISTOR	330Ω , $1/4W$ 470Ω , $1/4W$ $1.8k\Omega$, $1/6W$ $2.2k\Omega$, $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ $1k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$ $1/6W$
C2 TC C3 N. C4 M C5 M C6 N. C6 N. C7 M C9 UF C10 TC C11 TC C12 M C13 UF C14 M C15 M C19 M C15 M C19 C14 M C15 M C19 C14 M C15 M C19 C14 M C15 C17 TC C18 M C19 C10 TC C18 M C19 M C10 TC C11 TC C18 M C19 M C10 TC C11 TC C11 TC C12 M C12 TC C13 UF C12 TC C13 UF C14 TC C15 M C19 M C15 TC C18 M C19 M C19 TC C11 TC C18 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C11 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C19 TC C19 TC C10 TC C10 TC C10 TC C10 TC C11 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C10 TC C10 TC C10 TC C11 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C10 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C13 UF C13 UF C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C10 TC C11 TC C11 TC C11 TC C12 TC C11 TC C12 TC C12 TC C12 TC C12 TC C13 TC C14 TC C14 TC C15 TC C16 TC C17 TC C18 TC C17 TC C18 TC C19 TC C19 TC C10 TC C11 TC C11 TC C12 TC C11 TC C12 TC	TC74HC4066 AP NJM2233BD M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP M51957BL JPD75116CW-A03 M54519P M54519P M54519P M5278D12 M5278D12 M5278D05 JPC78N05	IC I	R8 R9 R10 R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRV141F-4700AY QRD161J-182 QRD161J-152 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-332 QRD161J-472 QRD161J-332 QRD161J-472 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-681 QRD161J-471	CMF RESISTOR	330Ω , $1/4W$ 470Ω , $1/4W$ $1.8k\Omega$, $1/6W$ $2.2k\Omega$, $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ $1k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$ $1/6W$
C3 N. C4 M M C5 M C6 N. C6 N. C7 M C7	NJM2233BD M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP TC4013BP M51957BL JPD75116CW-A03 M54519P M54519P M54519P M5278D12 M5278D12 M5278D05 JPC78N05	IC I	R8 R9 R10 R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRV141F-4700AY QRD161J-182 QRD161J-152 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-332 QRD161J-472 QRD161J-332 QRD161J-472 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-681 QRD161J-471	CMF RESISTOR	470Ω , $1/4W$ $1.8k\Omega$, $1/6W$ $2.2k\Omega$, $1/6W$ $1.5k\Omega$, $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ $1k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$
C3 N. C4 M M C5 M C6 N. C6 N. C7 M C7	NJM2233BD M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP TC4013BP M51957BL JPD75116CW-A03 M54519P M54519P M54519P M5278D12 M5278D12 M5278D05 JPC78N05	IC I	R9 R10 R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-182 QRD161J-222 QRD161J-152 QRD161J-561 QRD161J-561 QRD161J-102 QRD161J-332 QRD161J-472 QRD161J-332 QRD161J-472 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103	RESISTOR	$1.8k\Omega$, $1/6W$ $2.2k\Omega$, $1/6W$ $1.5k\Omega$, $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ $1k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ 3.0Ω , $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$
C3 N. C4 M M C5 M C6 N. C6 N. C7 M C7	NJM2233BD M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP TC4013BP M51957BL JPD75116CW-A03 M54519P M54519P M54519P M5278D12 M5278D12 M5278D05 JPC78N05	IC I	R10 R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-222 QRD161J-152 QRD161J-561 QRD161J-561 QRD161J-102 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-681 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-103	RESISTOR	$2.2k\Omega$, $1/6W$ $1.5k\Omega$, $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ $1k\Omega$, $1/6W$ 560Ω , $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$
C4 M C5 M C6 N C6 N C7 M C9 UF C10 TC C11 TC C12 M C13 UF C14 M C15 M C15 M C17 TC C18 M C19 UF C20 UF C20 UF C21 2S C22 2S C24 2S C25 C25 C25 C26 2S C27 C28 C28 C28 C29 C28 C21 C28 C22 C28 C22 C28 C22 C28 C22 C28 C23 C28 C23 C28 C24 C28 C25 C28 C25 C28 C26 C28 C27 C28	M50554-263SP M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP TC4013BP M51957BL JPD75116CW-A03 M54519P M54519P TC74HC00AP M5278D12 M5278D12 M5278D05 JPC78N05	IC I	R11 R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-152 QRD161J-561 QRD161J-561 QRD161J-102 QRD161J-561 QRD161J-332 QRD161J-472 QRD161J-332 QRD161J-472 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-102 QRD161J-681 QRD161J-681 QRD161J-471	RESISTOR	$1.5k\Omega$, $1/6W$ 560Ω , $1/6W$ 560Ω , $1/6W$ $1k\Omega$, $1/6W$ 560Ω , $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$
C5 M C6 N C7 M C9 UF C10 TC C11 TC C12 M C13 UF C14 M C15 M C17 TC C18 M C19 UF C20 UF C20 UF C21 2S C22 2S C24 2S C24 2S C25 2S C26 2S C27 2S C27 2S C28 2S C29 2S C210 2S C211 2S C212 2S C212 2S C213 2S C214 2S C215 2S C216 2S C217 2S C216 2S C217 2S C218 2S C219 2S C220 2S	M52684AP NJM2233BD M52684AP JPC319C TC74HC00AP TC4013BP M51957BL JPD75116CW-A03 M54519P M54519P TC74HC00AP M5278D12 M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS) PSA933S(RS)	IC I	R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-391 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-681 QRD161J-681 QRD161J-471	RESISTOR	560Ω , $1/6W$ 560Ω , $1/6W$ $1k\Omega$, $1/6W$ 560Ω , $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$
C6 N. C7 M C9 UF C10 TC C11 TC C12 M C13 UF C14 M C15 M C17 TC C18 M C19 UF C20	NJM2233BD M52684AP JPC319C FC74HC00AP FC4013BP M51957BL JPD75116CW-A03 M54519P M54519P FC74HC00AP M5278D12 M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS) PSA933S(RS)	IC I	R12 R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-561 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-391 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-681 QRD161J-681 QRD161J-471	RESISTOR	560Ω , $1/6W$ 560Ω , $1/6W$ $1k\Omega$, $1/6W$ 560Ω , $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$
C7 M C9 UF C10 TC C11 TC C12 M C13 UF C13 UF C14 M C15 M C17 TC C18 M C19 M C20 UF C20 UF C20 UF C21 2S C22 2S C24 2S C24 2S C25 C25 C25 C26 2S C27 2S C26 2S C27 2S C26 2S C27 2S C211 2S C211 2S C212 2S C211 2S C212 2S C211 2S C212 2S C212 2S C212 2S C213 2S C212 2S C213 2S C214 2S C215 2S C216 2S C217 2S C216 2S C217 2S C216 2S C217 2S C218 2S C219 2S C219 2S C220 2S	M52684AP JPC319C TC74HC00AP TC4013BP M51957BL JPD75116CW-A03 M54519P M54519P TC74HC00AP M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS) PSA933S(RS)	IC I	R13 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-561 QRD161J-102 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-332 QRD161J-391 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-681	RESISTOR	560Ω , $1/6W$ $1k\Omega$, $1/6W$ 560Ω , $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$
C9 UF C10 TC C11 TC C12 Mi C13 UF C14 Mi C15 Mi C17 TC C18 Mi C19 Mi C20 UF C20 UF C20 C2 C3	JPC319C FC74HC00AP FC4013BP M51957BL JPD75116CW-A03 M54519P M54519P FC74HC00AP M5278D12 M5278L05 JPC78N05 SC1740S(QRS) SSA933S(RS) SSA933S(RS)	IC I	R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-102 QRD161J-332 QRD161J-472 QRD161J-332 QRD161J-332 QRD161J-391 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR	$1k\Omega$,1/6W 560Ω ,1/6W $3.3k\Omega$,1/6W $4.7k\Omega$,1/6W $3.3k\Omega$,1/6W $1k\Omega$,1/6W $1k\Omega$,1/6W $1k\Omega$,1/6W $10k\Omega$,1/6W
C10 TC C11 TC C12 Mi C13 UF C14 Mi C15 Mi C17 TC C18 Mi C19 Mi C20 UF C20 UF C20 UF C20 UF C21 2S C22 2S C23 2S C24 2S C25 2S C26 2S C27 2S C26 2S C27 2S C210 2S C211 2S C212 2S C211 2S C212 2S C212 2S C212 2S C212 2S C213 2S C214 2S C215 2S C216 2S C217 2S C216 2S C217 2S C216 2S C217 2S C218 2S C219 2S C219 2S C220 2S	TC74HC00AP TC4013BP M51957BL JPD75116CW-A03 M54519P M54519P TC74HC00AP M5278D12 M5278L05 JPC78N05 SC1740S(QRS) SA933S(RS)	IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-561 QRD161J-332 QRD161J-472 QRD161J-332 QRD161J-391 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR	560Ω , $1/6W$ $3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ 390Ω , $1/6W$ $1k\Omega$, $1/6W$ $1k\Omega$, $1/6W$ $10k\Omega$, $1/6W$ 220Ω , $1/6W$ $10k\Omega$, $1/6W$ $1k\Omega$, $1/6W$
C11 TC C12 M C13 UF C14 M C15 M C15 M C17 TC C18 M C19 M C20 UF C20 UF C20 UF C20 UF C21 2S C22 2S C23 2S C24 2S C25 2S C26 2S C27 2S C26 2S C27 2S C210 2S C211 2S C212 2S C211 2S C212 2S C211 2S C212 2S C212 2S C213 2S C214 2S C215 2S C216 2S C217 2S C216 2S C217 2S C218 2S C217 2S C218 2S C219 2S C219 2S C220 2S	TC4013BP M51957BL JPD75116CW-A03 M54519P M54519P TC74HC00AP M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS)	IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-332 QRD161J-472 QRD161J-332 QRD161J-391 QRD161J-102 QRD161J-102 QRD161J-103 QRD161J-221 QRD161J-103 QRD161J-102 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR	$3.3k\Omega$, $1/6W$ $4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ 390Ω , $1/6W$ $1k\Omega$, $1/6W$ 680Ω , $1/6W$ $10k\Omega$, $1/6W$ 220Ω , $1/6W$ $10k\Omega$, $1/6W$ $1/6W$, $1/6W$
C12 Mile C13 UF C14 Mile C15 Mile C17 TC C18 Mile C19 Mile C20 UF C19 C20 C3	M51957 BL JPD75116CW-A03 M54519P M54519P FC74HC00AP M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS)	IC IC IC IC IC IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-472 QRD161J-332 QRD161J-391 QRD161J-102 QRD161J-681 QRD161J-103 QRD161J-221 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR	$4.7k\Omega$, $1/6W$ $3.3k\Omega$, $1/6W$ 390Ω , $1/6W$ $1k\Omega$, $1/6W$ 680Ω , $1/6W$ $10k\Omega$, $1/6W$ 220Ω , $1/6W$ $10k\Omega$, $1/6W$ 1/6W
C12 Mile C13 UF C14 Mile C15 Mile C17 TC C18 Mile C19 Mile C20 UF C19 C20 C3	M51957 BL JPD75116CW-A03 M54519P M54519P FC74HC00AP M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS)	IC IC IC IC IC IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-332 QRD161J-391 QRD161J-102 QRD161J-681 QRD161J-103 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR	$3.3k\Omega$,1/6W 390Ω ,1/6W $1k\Omega$,1/6W 680Ω ,1/6W $1k\Omega$,1/6W $10k\Omega$,1/6W 220Ω ,1/6W $10k\Omega$,1/6W $1k\Omega$,1/6W 470Ω ,1/6W
C13 UF C14 M C15 M C15 M C17 TC C18 M C19 M C20 UF C20 UF C20 UF C21 2S C22 2S C24 2S C25 2S C26 2S C27 2S C26 2S C27 2S C26 2S C27 2S C211 2S C212 2S C212 2S C212 2S C212 2S C212 2S C213 2S C214 2S C215 2S C216 2S C217 2S C216 2S C217 2S C218 2S C217 2S C218 2S C219 2S C220 2S	JPD75116CW-A03 M54519P M54519P FC74HC00AP M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS)	IC IC IC IC IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-391 QRD161J-102 QRD161J-681 QRD161J-102 QRD161J-103 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR	390Ω ,1 / 6W $1k\Omega$,1 / 6W 680Ω ,1 / 6W $1k\Omega$,1 / 6W $10k\Omega$,1 / 6W 220Ω ,1 / 6W $10k\Omega$,1 / 6W $1k\Omega$,1 / 6W 680Ω ,1 / 6W 470Ω ,1 / 6W
C14 Mile C15 Mile C15 Mile C17 TC C18 Mile C19 Mile C20 UF C20 UF C20 UF C20 C2 C2 C20 C20	M54519P M54519P FC74HC00AP M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS)	IC IC IC IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-102 QRD161J-681 QRD161J-102 QRD161J-103 QRD161J-221 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	$1k\Omega$,1/6W 680Ω ,1/6W $1k\Omega$,1/6W $10k\Omega$,1/6W 220Ω ,1/6W $10k\Omega$,1/6W $1k\Omega$,1/6W 470Ω ,1/6W
C14 Mile C15 Mile C15 Mile C17 TC C18 Mile C19 Mile C20 UF C20 UF C20 UF C20 C2 C2 C20 C20	M54519P FC74HC00AP M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS) PSA933S(RS)	IC IC IC IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-102 QRD161J-681 QRD161J-102 QRD161J-103 QRD161J-221 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	$1k\Omega$,1/6W 680Ω ,1/6W $1k\Omega$,1/6W $10k\Omega$,1/6W 220Ω ,1/6W $10k\Omega$,1/6W $1k\Omega$,1/6W 470Ω ,1/6W
C15 Mile C17 TC C18 Mile C19 Mile C19 Mile C20 UF C20 UF C20 C2	M54519P FC74HC00AP M5278D12 M5278L05 JPC78N05 PSC1740S(QRS) PSA933S(RS) PSA933S(RS)	IC IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R22 R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-102 QRD161J-681 QRD161J-102 QRD161J-103 QRD161J-221 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	$1k\Omega$,1/6W 680Ω ,1/6W $1k\Omega$,1/6W $10k\Omega$,1/6W 220Ω ,1/6W $10k\Omega$,1/6W $1k\Omega$,1/6W 470Ω ,1/6W
C17 TC C18 Mi C19 Mi C20 UF C20 UF C21 2S C22 2S C22 2S C23 2S C24 2S C25 2S C26 2S C27 2S C26 2S C27 2S C28 2S C210 2S C211 2S C212 2S C212 2S C212 2S C213 2S C214 2S C215 2S C216 2S C217 2S C216 2S C217 2S C218 2S C219 2S C219 2S C220 2S	TC74HC00AP M5278D12 M5278L05 JPC78N05 SC1740S(QRS) SA933S(RS)	IC IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R23 R24 R25 R26 R27 R28 R29 R30	QRD161J-681 QRD161J-102 QRD161J-103 QRD161J-221 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	680Ω,1/6W 1kΩ,1/6W 10kΩ,1/6W 220Ω,1/6W 10kΩ,1/6W 1kΩ,1/6W 680Ω,1/6W 470Ω,1/6W
C18 MI C19 MI C20 UF C20 UF C20 UF C21 2S C22 2S C23 2S C24 2S C25 2S C26 2S C27 2S C28 2S C210 2S C211 2S C212 2S C212 2S C213 2S C214 2S C215 2S C216 2S C217 2S C218 2S C217 2S C218 2S C217 2S C218 2S C219 2S C220 2S	M5278D12 M5278L05 JPC78N05 SC1740S(QRS) SA933S(RS) SA933S(RS)	IC IC IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R24 R25 R26 R27 R28 R29 R30	QRD161J-102 QRD161J-103 QRD161J-221 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	$1k\Omega,1/6W$ $10k\Omega,1/6W$ $220\Omega,1/6W$ $10k\Omega,1/6W$ $1k\Omega,1/6W$ $680\Omega,1/6W$ $470\Omega,1/6W$
C19 Mile C20 UF C20 UF C20 UF C20 UF C20 UF C20 UF C20	M5278L05 JPC78N05 SC1740S(QRS) SA933S(RS) SA933S(RS)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R25 R26 R27 R28 R29 R30	QRD161J-103 QRD161J-221 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	10kΩ,1/6W 220Ω,1/6W 10kΩ,1/6W 1kΩ,1/6W 680Ω,1/6W 470Ω,1/6W
C20 UF C20 UF C21 2S C22 2S C33 2S C4 2S C35 2S C36 2S C37 2S C38 2S C39 2S C310 2S C311 2S C312 2S C312 2S C313 2S C314 2S C315 2S C316 2S C317 2S C318 2S C319 2S C319 2S C320 2S	JPC78N05 SC1740S(QRS) SA933S(RS) SA933S(RS)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R26 R27 R28 R29 R30	QRD161J-221 QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR RESISTOR RESISTOR RESISTOR	220Ω,1/6W 10kΩ,1/6W 1kΩ,1/6W 680Ω,1/6W 470Ω,1/6W
21 2S 22 2S 23 2S 24 2S 25 2S 26 2S 27 2S 28 2S 29 2S 210 2S 211 2S 212 2S 212 2S 213 2S 214 2S 215 2S 216 2S 217 2S 217 2S 218 2S 217 2S 218 2S 217 2S 218 2S 219 2S 210 2S 210 2S 211 2S 212 2S 213 2S 214 2S 215 2S 216 2S 217 2S 218 2S 219 2S 210 2S	2SC1740S(QRS) 2SA933S(RS) 2SA933S(RS)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	R27 R28 R29 R30	QRD161J-103 QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR RESISTOR RESISTOR	10kΩ,1/6W 1kΩ,1/6W 680Ω,1/6W 470Ω,1/6W
02 2S 03 2S 03 2S 04 2S 05 2S 06 2S 07 2S 08 2S 09 2S 010 2S 011 2S 012 2S 013 2S 014 2S 015 2S 016 2S 017 2S 018 2S 019 2S 020 2S	2SA933S(RS) 2SA933S(RS)	TRANSISTOR TRANSISTOR TRANSISTOR	R28 R29 R30	QRD161J-102 QRD161J-681 QRD161J-471	RESISTOR RESISTOR RESISTOR	1kΩ,1/6W 680Ω,1/6W 470Ω,1/6W
02 2S 03 2S 03 2S 04 2S 05 2S 06 2S 07 2S 08 2S 09 2S 010 2S 011 2S 012 2S 013 2S 014 2S 015 2S 016 2S 017 2S 018 2S 019 2S 020 2S	2SA933S(RS) 2SA933S(RS)	TRANSISTOR TRANSISTOR TRANSISTOR	R29 R30 R32	QRD161J-681 QRD161J-471	RESISTOR RESISTOR	680Ω,1∕6W 470Ω,1∕6W
02 2S 03 2S 03 2S 04 2S 05 2S 06 2S 07 2S 08 2S 09 2S 010 2S 011 2S 012 2S 013 2S 014 2S 015 2S 016 2S 017 2S 018 2S 019 2S 020 2S	2SA933S(RS) 2SA933S(RS)	TRANSISTOR TRANSISTOR TRANSISTOR	R30 R32	QRD161J-471	RESISTOR	470Ω,1/6W
Q3 2S Q4 2S Q5 2S Q6 2S Q7 2S Q8 2S Q9 2S Q10 2S Q11 2S Q12 2S Q13 2S Q14 2S Q15 2S Q16 2S Q17 2S Q18 2S Q19 2S Q20 2S	SA933S(RS)	TRANSISTOR TRANSISTOR	R32			
24 28 25 28 26 28 27 28 28 29 28 29 28 211 28 212 28 213 28 214 28 215 28 216 28 217 28 218 28 219 28 219 28		TRANSISTOR		ODD404 1 430	DEGICTOR	A SECOND A COST
25 28 28 28 28 29 28 211 28 212 28 215 28 215 28 217 28 216 28 217 28 218 28 219 28 220 28 220 28	!SC1740S(QRS)			ODD404 1 430	DEGIOTAR	4 41 6 4 2 4 4
26 28 27 28 28 28 29 28 210 28 211 28 212 28 213 28 214 28 215 28 216 28 217 28 218 28 219 28 220 28		TDANGICTOD	D24	QRD161J-472	RESISTOR	4.7kΩ ,1 ∕ 6W
27 28 28 29 28 29 29 29 29 29 29 29 29 29 29 29 29 29	SC1740S(QRS)	I I MINOIO I ON	1104	QRD161J-122	RESISTOR	1.2kΩ ,1 ∕ 6W
27 28 28 29 28 29 29 29 29 29 29 29 29 29 29 29 29 29	SC1740S(QRS)	TRANSISTOR	R35	QRD161J-102	RESISTOR	1kΩ,1∕6W
08 2S 09 2S 010 2S 011 2S 012 2S 013 2S 014 2S 015 2S 016 2S 017 2S 018 2S 019 2S 020 2S	SC1740S(QRS)	TRANSISTOR	R36	QRD161J-102	RESISTOR	1kΩ,1∕6W
29 28 210 28 211 28 212 28 213 28 214 28 215 28 216 28 217 28 218 28 219 28 220 28	SC1740S(QRS)	TRANSISTOR	R37	QRD161J-681	RESISTOR	680Ω,1∕6W
210 28 211 28 212 28 213 28 214 28 215 28 216 28 217 28 218 28 219 28 220 28	SA933S(RS)	TRANSISTOR	R38	QRD161J-561	RESISTOR	560Ω,1∕6W
211 2S 212 2S 213 2S 214 2S 215 2S 216 2S 217 2S 218 2S 219 2S 220 2S	SA933S(RS)	TRANSISTOR	R39	QRD161J-393	RESISTOR	39kΩ,1∕6W
212 28 213 28 214 28 215 28 216 28 217 28 218 28 219 28 220 28	.0/10000(110)	1100001010	R40	QRD161J-152	RESISTOR	1.5kΩ,1/6W
212 28 213 28 214 28 215 28 216 28 217 28 218 28 219 28 220 28	SC1740S(QRS)	TRANSISTOR	1140	Q11D1010-132	1ÝF010 I OLI	1.0032,17 044
213 28 214 28 215 28 216 28 217 28 218 28 219 28 220 28	SC1740S(QRS)	TRANSISTOR	DA1	QRD161J-271	DECICTOR	2700 1 /6\A
214 28 215 28 216 28 217 28 218 28 219 28 220 28			R41		RESISTOR	270Ω,1/6W
215 28 216 28 217 28 218 28 219 28 220 28	SA933S(RS)	TRANSISTOR	R42	QRD161J-103	RESISTOR	10kΩ,1/6W
216 28 217 28 218 28 219 28 220 28	SA933S(RS)	TRANSISTOR	R43	QRD161J-222	RESISTOR	2.2kΩ ,1/6W
217 2S 218 2S 219 2S 220 2S	SA933S(RS)	TRANSISTOR	R44	QRD161J-223	RESISTOR	22kΩ,1/6W
118 2S 119 2S 120 2S	SC1740S(QRS)	TRANSISTOR	R45	QRD161J-273	RESISTOR	27kΩ,1∕6W
119 2S 120 2S	SC1740S(QRS)	TRANSISTOR	R46	QRD161J-222	RESISTOR	2.2kΩ,1∕6W
220 2S	SC1740S(QRS)	TRANSISTOR	R47	QRD161J-222	RESISTOR	2.2kΩ,1∕6W
	SC1740S(QRS)	TRANSISTOR	R48	QRD161J-222	RESISTOR	2.2kΩ,1∕6W
	SC1740S(QRS)	TRANSISTOR	R49	QRD161J-122	RESISTOR	1.2kΩ .1 / 6W
			R50	QRD161J-122	RESISTOR	1.2kΩ,1∕6W
1 78	SC1740S(QRS)	TRANSISTOR				
	SC1740S(QRS)	TRANSISTOR	R51	QRD161J-101	RESISTOR	100Ω,1∕6W
122 20	.0017400(Q110)	THANGISTON	R52	QRD161J-222	RESISTOR	2.2kΩ,1∕6W
14 40	00122	DIODE	R53	QRD161J-183	RESISTOR	18kΩ,1/6W
	SS133	DIODE	R54	QRD161J-472	RESISTOR	4.7kΩ,1/6W
	CC133	DIODE	R55	QRD161J-391	RESISTOR	390Ω,1/6W
	SS133	DIODE	R56	QRD161J-473	RESISTOR	47kΩ ,1 ∕ 6W
	SS133	DIODE	R57	QRD161J-0R0	RESISTOR	0Ω,1∕6W
	SS133 MA27TB	DIODE	R58	QRD161J-103	RESISTOR	10kΩ,1∕6W
D7 1S	SS133 MA27TB SS133	DIODE		QRD161J-561	RESISTOR	560Ω,1∕6W
	SS133 MA27TB	DIODE	R59	GITD1019-901	RESISTOR	560Ω,1/6W
	SS133 MA27TB SS133		R59 R60	QRD161J-561		,
	SS133 MA27TB SS133 SS133	DIODE				
R	SS133 MA27TB SS133 SS133 SS133	DIODE DIODE			RESISTOR	180Ω,1∕6W

					l		_022.5		<u> </u>
#/		o. PART No.		DESCRIPTION	#2		o. PART No.	PART NAME, D	
	R63	QRD161J-223	RESISTOR	22kΩ,1/6W		R126	QRD161J-181	RESISTOR	180Ω,1/6W
	R64	QRD161J-152	RESISTOR	1.5kΩ,1/6W		R127	QRD161J-473	RESISTOR	47kΩ ,1∕6W
	R66	QRD161J-152	RESISTOR	1.5kΩ,1/6W		D426	QRD161J-181	RESISTOR	100 O 1 /6\M
	R67	QRD161J-393	RESISTOR RESISTOR	39kΩ,1/6W 1.5kΩ,1/6W		R136 R137	QRD161J-181	RESISTOR	180Ω,1/6W 10kΩ,1/6W
	R68 R69	QRD161J-152 QRD161J-271	RESISTOR	270Ω,1/6W		R138	QRD161J-103	RESISTOR	10kΩ,1/6W
	R70	QRD161J-103	RESISTOR	10kΩ,1/6W		R139	QRD161J-181	RESISTOR	180Ω,1/6W
	N/U	QND1013-103	NESISTON	10822,17 044	Δ	R140	PU52108-2R2	POSITIVE THERM	
	R71	QRD161J-472	RESISTOR	4.7kΩ ,1 ∕ 6W					
	R72	QRD161J-473	RESISTOR	47kΩ,1/6W		R141	QRD161J-103	RESISTOR	10kΩ,1/6W
	R73	QRD161J-104	RESISTOR	100kΩ,1/6W		R142	QRD161J-103	RESISTOR	10kΩ ,1 / 6W
	R74	QRD161J-222	RESISTOR	2.2kΩ,1/6W		R143	QRD161J-154	RESISTOR	150kΩ,1/6W
	R77	QRD161J-122	RESISTOR	1.2kΩ ,1 /6W		R144	QRD161J-104	RESISTOR	100kΩ ,1∕6W
	R78 R79	QRD161J-123 QRD161J-123	RESISTOR RESISTOR	12kΩ,1∕6W 12kΩ,1∕6W		R1001	QVZ3513-102	V RESISTOR	1kΩ
	R80	QRD161J-123	RESISTOR	1kΩ,1/6W		וויייו	QV23513-102	V NESISTON	11/22
		0004441000	DEGLOTOR	201 0 4 /014		RA1	EXB-P88103M	NETWORK RESIST	OR
	R81	QRD161J-333	RESISTOR	33kΩ,1/6W					
	R82	ORD161J-273	RESISTOR	27kΩ,1/6W 1.5kΩ,1/6W		C2	QETC1CM-107	E CAPACITOR	100 μ F,16V
	R83 R84	QRD161J-152 QRD161J-102	RESISTOR RESISTOR	1.5KΩ,1/6W		C3	QETC1CM-107	E CAPACITOR	100 μ F,16V
	R85	QRD161J-102	RESISTOR	1kΩ,1/6W		C4	QETC1AM-107	E CAPACITOR	100 μ F,10V
	R86	QRD161J-271	RESISTOR	270Ω,1/6W		C6	QCC31CK-104	CAPACITOR	0.1 μ F,16V
	R87	QRD161J-222	RESISTOR	2.2kΩ,1/6W		C7	QETC1 AM-107	E CAPACITOR	100 μ F,10 V
	R88	QRD161J-103	RESISTOR	10kΩ,1/6W		C8	QETC1AM-107	E CAPACITOR	100 μ F,10 V
	R89	QRD161J-222	RESISTOR	2.2kΩ ,1/6W		C9	QCC31CK-104	CAPACITOR	0.1 μ F,16V
	R90	QRD161J-271	RESISTOR	270Ω,1∕6W					
					İ	C11	QCS31HJ-220	CAPACITOR	22pF,50V
	R91	QRD161J-222	RESISTOR	2.2kΩ,1/6W		C13	QCS31HJ-560	CAPACITOR	56pF,50V
	R92	QRD161J-102	RESISTOR	1kΩ,1/6W		C14	QCS31HJ-150	CAPACITOR	15pF,50V
	R93	QRD161J-821	RESISTOR RESISTOR	820Ω,1/6W 330Ω,1/6W		C15 C16	QETC1 AM-107 QCF31HP-103	E CAPACITOR CAPACITOR	100 μ F,10V 0.01 μ F,50V
	R94 R95	QRD161J-331 QRD161J-681	RESISTOR	680Ω,1/6W		C17	QFN31HJ-222	M CAPACITOR	0.0022 μ F,50V
	R97	QRD161J-182	RESISTOR	1.8kΩ ,1 ∕ 6W		C18	QETC1HM-105	E CAPACITOR	1 μ F,50V
	R98	QRD161J-102	RESISTOR	1kΩ,1/6W		C20	QCS31HJ-220	CAPACITOR	22pF,50V
	R99	QRD161J-473	RESISTOR	47kΩ,1/6W		020	20001110 220	0/11/1011011	p. /00 /
	R100	QRD161J-681	RESISTOR	680Ω,1/6W		C21	QFN31HJ-103	M CAPACITOR	0.01 μ F,50V
			,,,,			C22	QFN31HJ-152	M CAPACITOR	0.0015 µ F,50V
	R103	QRD161J-104	RESISTOR	100kΩ,1∕6W		C23	QETC1EM-475	E CAPACITOR	4.7 μ F,25 V
	R104	QRD161J-104	RESISTOR	100kΩ,1∕6W		C24	QCS31HJ-390	CAPACITOR	39pF,50V
	R105	QRD161J-473	RESISTOR	47kΩ,1∕6W		C25	QCS31HJ-121	CAPACITOR	120pF,50V
	R106	QRD161J-183	RESISTOR	18kΩ ,1∕6W		C26	QETC1CM-106	E CAPACITOR	10 μ F,16V
	R107	QRD161J-103	RESISTOR	10kΩ,1∕6W		C27	QETC1 HM-474	E CAPACITOR	$0.47 \mu\text{F,50V}$
	R108	QRD161J-472	RESISTOR	4.7kΩ,1/6W		C28	QETC1 AM-108	E CAPACITOR	1000 µ F,10V
	R109	QRD161J-472	RESISTOR	4.7kΩ,1/6W		C29	QETC1 AM-108	E CAPACITOR	1000 µ F,10V
	R110	QRD161J-471	RESISTOR	470Ω,1∕6W		C30	QETC1 AM-107	E CAPACITOR	100 μ F,10V
	R111	QRD161J-471	RESISTOR	470Ω,1∕6W		C31	QETC1 AM-107	E CAPACITOR	100 μ F,10 V
	R112	QRD161J-471	RESISTOR	470Ω,1∕6W		C32	QETC1 AM-107	E CAPACITOR	100 μ F,10V
	R113	QRD161J-471	RESISTOR	470Ω,1∕6W		C33	QCC31CK-104	CAPACITOR	0.1 μ F,16V
	R114	QRD161J-471	RESISTOR	470Ω,1/6W	[C35	QFN31HJ-222	M CAPACITOR	0.0022 μ F,50V
	R115	QRD161J-471	RESISTOR	470Ω,1/6W	[C36	QCC31CK-104	CAPACITOR	0.1 μ F,16V
	R116	QRD161J-471	RESISTOR	470Ω,1/6W	[C37	QCS31HJ-220	CAPACITOR	22pF,50V
	R117	ORD161J-471	RESISTOR	470Ω,1/6W	1	C38	QFN31HJ-103	M CAPACITOR	0.01 μ F,50V 0.0015 μ F,50V
	R118	QRD161J-121 QRD161J-121	RESISTOR RESISTOR	120Ω,1/6W 120Ω,1/6W	ľ	C39 C40	QFN31HJ-152 QETC1HM-475	M CAPACITOR E CAPACITOR	4.7 μ F,50V
	R119 R120	QRD161J-121	RESISTOR	120Ω,1/6W	ŀ	C40	QE3C1 FIVI-475	E CAFACITOR	4.7 21,50 0
						C43	QCC31CK-104	CAPACITOR	0.1 μ F,16V
ŧ	R121	QRD161J-121	RESISTOR	120Ω,1∕6W		C46	QETC1CM-107	E CAPACITOR	100 μ F,16V
	R122	QRD161J-121	RESISTOR	120Ω,1/6W		C47	QETC1 AM-107	E CAPACITOR	100 μ F,10V
	R123	QRD161J-121	RESISTOR	120Ω,1/6W		C48	QCS31HJ-101	CAPACITOR	100pF,50V
	R124	QRD161J-121	RESISTOR	120Ω,1/6W		C49	QCS31HJ-101	CAPACITOR	100pF,50V
	R125	QRD161J-121	RESISTOR	120Ω,1∕6W	1	C50	QETC1 AM-107	E CAPACITOR	100 μ F,10V

#_^	REF No.	PART No.	PART NAME, DESCI	RIPTION	 #∆REF No.	PART No.	PART NAME, DESCRIPTION
	C51	QETC1 AM-476	E CAPACITOR	47 μ F,10V	SLD1	PRD30781-02-03	SHIELD PLATE
	C52	QETC1HM-474	E CAPACITOR	0.47 μ F,50V	RV1	PU53276	PLASTIC RIVET, ×4
	C53	QETC1 HM-474	E CAPACITOR	0.47 μ F,50V		1 000270	121010 1111217
	C54	QETC1 AM-107	E CAPACITOR	100 μ F,10V			
	C56	QCS31HJ-100	CAPACITOR	10pF,50V	TP1	PU54983	TEST PIN, × 20
	C58	QETC1HM-104	E CAPACITOR	0.1 μ F,50V	11.1.5	1 004000	1201 1114, ~ 20
	C59	QETC1CM-476	E CAPACITOR	47 μ F,16V			
	C60	QCC31EK-104	CAPACITOR	0.1 μ F,25V	CN1	PGZ00421-64	MALE CONNECTOR
	Cou	QCC31EN-104	CAFACITON	0.1 μ Γ,25 γ	CIVI	1 0200421-04	WALE CONNECTOR
	C61	QCC31CK-104	CAPACITOR	0.1 μ F,16V			
	C62	QETC1CM-107	E CAPACITOR	100 μ F,16V			
	C63	QETC1AM-476	E CAPACITOR	47 μ F,10V			
	C64	QCC31CK-104	CAPACITOR	0.1 μ F,16V			
	C65	QCC31CK-104	CAPACITOR	0.1 μ F,16V			
	C66	QETC1AM-107	E CAPACITOR	100 μ F,10V			
	C67	QETC1AM-107	E CAPACITOR	100 μ F,10V			
	C68	QCC31CK-104	CAPACITOR	0.1 μ F,16V			
	C69	QCC31CK-104	CAPACITOR	0.1 μ F,16V			
	C70	QETC1 AM-476	E CAPACITOR	47 μ F,10V			
	C/U	QETCTAIVI-470	ECAFACITOR	47 μ Γ,10 V			
	C72	QETC1 HM-105	E CAPACITOR	1 μ F,50V			
	C73	QCC31CK-104	CAPACITOR	0.1 μ.F,16V			
	C73	QCC31CK-104	CAPACITOR	0.1 μ F,16V			
	C74	QCC31CK-104	CAPACITOR	0.1 μ F,16V 0.1 μ F,16V			
	C75	QCC31CK-104	CAPACITOR	0.1 μ F,16V			
	C/6		E CAPACITOR	2.2 μ F,50V			
	Cou	QETC1HM-225	ECAFACITON	2.2 μ Γ,50 γ	•		
	C83	QCC31CK-104	CAPACITOR	0.1 μ F,16V			
	C84	QETC1 AM-107	E CAPACITOR	100 μ F,10V			
	C85	QFN31HJ-103	M CAPACITOR	0.01 μ F,50V	*		
	C86	QFN31HJ-103	M CAPACITOR	0.01 μ F,50V			
	C88	QCS31HJ-270	CAPACITOR	27pF,50V			
	C89	QCS31HJ-270	CAPACITOR	27pF,50V			
	003	20031110-270	ONI NOITOIT	27 pi ,00 v			
	C99	QCC31CK-104	CAPACITOR	0.1 μ F,16V			
	C100	QCS31HJ-180	CAPACITOR	18pF,50V			
	0100	40001110100		1001,001			
	C101	PU57672-200	TRIMMER CAPACITOR	20pF			
	C102	PU57672-300	TRIMMER CAPACITOR	30pF			
	C105	QCF31HP-103	CAPACITOR	0.01 µ F,50V		•	
	C107	QCS31HJ-271	CAPACITOR	270pF,50V			
	C108	QCS31HJ-680	CAPACITOR	68pF,50V			
	C109	QETC1CM-107	E CAPACITOR	100 μ F,16V			
			2 0/11/10/10/1	100,201,101			
	L1	PU48530-220J	COIL, ×3 (L1, L5, L6)	22 μ H			
	L2	PU48530-471J	COIL	470 μ H			
	L3	PU48530-221J	COIL	220 μ H			
				,			
			4				
$\mathbf{\Lambda}$	X1	PGZ00898	CRYSTAL RESONATOR				
$\mathbf{\Lambda}$	X2	PGZ00937	CERAMIC FILTER				
$\mathbf{\Lambda}$	X3	PGZ00937	CERAMIC FILTER				
$\mathbf{\Lambda}$	X5	PU60784	RESONATOR				
				l			
				l			
Δ	K1	PGZ00354	FERRATE BEADS, ×3	l		-	
				l			
				l			
	EJ1	PGZ00582	EJECTOR, ×2				
	STK1	PRD30072-57	STICKER	ļ			



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